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Analysis of State and Federal Sulfur Dioxide Emission Regulations for Combustion Sources (Revised)

Radian Corp., Research Triangle Park, NC

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16. ABSTRACT

State implementation plan (SIP) regulations and Federal new source performance standards (NSPS) pertaining to sulfur dioxide (SO_2) emissions from fuel combustion sources have been compiled and summarized in this report. State regulations which were submitted to the Environmental Protection Agency (EPA) and have been approved as part of the SIP as of December 31, 1988 are included. The source categories to which the regulations presented herein apply are broadly defined as indirect and direct heat exchangers, and primary steam generators (boilers).

This report will serve as a quick reference for estimating SO_2 emission rates, assessing ranges of SO_2 control, and quantifying the relative stringency of emission limits. Users are cautioned, however, to contact the appropriate State and/or local air pollution control agency and EPA Regional Office to verify the specific SO_2 emission limit that is applicable to an individual source.

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Analysis of State and Federal Sulfur Dioxide Emission Regulations for Combustion Sources (Revised)

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1. INTRODUCTION

State Implementation Plan (SIP) regulations and Federal new source performance standards (NSPS) pertaining to sulfur dioxide (SO_2) emissions from fuel combustion have been compiled and summarized in this report. The source categories to which the regulations apply are broadly defined as indirect and direct heat exchangers: primarily steam generators or boilers. Regulations applicable specifically to incineration of solid waste or to processes which include fuel combustion (cement kiln, lime calciner, etc.) were not included in this compilation.

This report can be used as a quick reference to estimating SO_2 emission rates, assessing ranges of SO_2 control, and quantifying the relative stringency of SO_2 emission limits. It was developed to serve as a starting point for broad control strategy evaluations and is not intended to be a precise reference for individual compliance determinations. The EPA recognizes that many States have SIP-approved limits for specific sources. Users are cautioned to contact the appropriate State and/or local air pollution control agency and EPA Regional Office to verify the specific SO_2 emission limit that is applicable to an individual source.

Sulfur dioxide regulations vary among the States and even within an individual State. Different emission limitations may apply depending on such parameters as facility size, fuel type, geographical location, and age of source. Included in this report are all the important factors that determine the applicability of a particular emission limit. Such factors (actual or rated heat input, test method, and length of time over which emissions are averaged) have a significant influence on the stringency of the emission limit.

The remainder of this report is organized as follows. Chapter 2 provides an overview of SO_2 emission regulations and briefly contrasts the basis for emission limits among each State. It also identifies typical uncontrolled and controlled emission levels. Chapter 3 discusses in considerable detail the potential SO_2 emissions from fuel combustion, as well as the various aspects of State and Federal SO_2 emission regulations. Chapter 4 describes the performance of available SO_2 control techniques.

Chapter 5 contains information on the applicability, emission limits, and compliance methods for each State SO_2 regulation. A summary of the major provisions of several Federal NSPS affecting SO_2 emissions from fuel combustion is provided in Appendix A.

2. SUMMARY

SO_2 emission limits for fuel combustion sources have been incorporated into SIPs as part of control strategies designed to provide for the attainment and maintenance of national ambient air quality standards (NAAQS) for SO_2. The form, stringency, and applicability of these emission limits often depended upon parameters such as fuel type, facility size, and method of determination (actual or design heat input), geographical location, and age of source. This chapter summarizes the basis for emission limits among States, compares the stringency of SO_2 emission limits, and discusses typical uncontrolled and controlled emission rates from fuel combustion sources.

2.1 BASIS FOR EMISSION LIMITS

Table 2-1 delineates the parameters upon which SO_2 emission limits for each State are based. This section discusses similarities in the basis and format of State SO_2 emission regulations.

Twenty-eight States have emission limits that depend on fuel type. In most cases, the difference in emission limits is based solely upon whether solid or liquid fuel is used. Some States, however, make further distinctions in emission limits based on the type of fuel oil (e.g., residual or distillate) and type of coal (e.g., anthracite or bituminous) that is used.

With respect to emission limit format, most State rules restrict the pounds of SO_2 that can be emitted per million Btu heat input to the furnace (e.g., lb SO_2/MM Btu) or restrict the sulfur content of fuels allowed to be burned (e.g., % sulfur, by weight). Twenty-two States have emission rate limits only, while 3 States have sulfur-content limits only and 21 States allow compliance with either an emission rate or a sulfur content limit. Only four States have an emission limit based on exhaust gas SO_2 concentration.

Facility size dictates the emission limit in 29 States. The most common size cutoff is 250 MM Btu/hr. However, a number of States also include different emission limits at cutoff points below 250 MM Btu/hr, such

Table 2-1. Basis for SIP SO_2 Emission Limitations in the United States*
(Applicable to fuel combustion sources)

EPA Region	State	Attain NAAQS for SO_2	Dependent on Fuel Type	Emission Rate Format (lb/MMBtu)	Fuel Sulfur Content Format (% S)	Emission Concentration Format (ppm)	Facility Heat Input Determination		Facility Size	Dependent on Date Construction Commenced		Emission Limit by County	Emission Limit by City	Emission Limit by Area
							Actual	Design		New Source	Existing Source			
1	Connecticut	●	●	●	●		●							
	Maine	●		●	●			●						●
	Massachusetts	●		●	●			●					●	●
	New Hampshire	●	●	●	●					●	●			●
	Rhode Island	●		●	●		●							
	Vermont	●	●	●	●			●	●					
2	New Jersey	●	●	●	●			●	●	●	●	●	●	
	New York	●	●	●	●		●		●	●	●	●	●	
3	Delaware	●	●	●	●		●	●	●	●	●	●		
	Washington, D.C.	●			●			●						
	Maryland	●	●	●	●		●		●			●		●
	Pennsylvania	●	●	●	●			●	●			●		●
	Virginia	●		●	●		●					●	●	●
	West Virginia	●		●	●		●	●	●			●		●
4	Alabama	●		●	●			●	●			●		●
	Florida	●	●	●			●		●	●	●	●		
	Georgia	●	●		●		●		●					
	Kentucky	●	●	●			●		●	●	●	●		
	Mississippi	●		●					●	●	●			
	North Carolina	●		●				●						
	South Carolina	●		●				●	●	●	●	●		
	Tennessee	●		●				●	●	●	●	●		
5	Illinois	●	●	●				●	●	●	●		●	●
	Indiana	●		●				●	●					●
	Michigan	●	●	●	●			●	●					
	Minnesota	●	●	●				●	●					●
	Ohio	●	●	●				●	●			●		
	Wisconsin	●	●	●	●			●	●	●	●		●	●

* Excluding New Source Performance Standards Criteria.

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Table 2-1. Continued

EPA Region	State	Attain NAAQS for SO_2	Dependent on Fuel Type	Emission Rate Format (lb/MMBtu)	Fuel Sulfur Content Format (% S)	Emission Concentration Format (ppm)	Facility Heat Input Determination		Facility Size	Dependent on Date Construction Commenced		Emission Limit by County	Emission Limit by City	Emission Limit by Area
							Actual	Design		New Source	Existing Source			
6	Arkansas	●		●						●				
	Louisiana	●				●								
	New Mexico	●		●				●	●	●	●			
	Oklahoma	●	●	●				●	●	●	●			
	Texas	●	●	●		●	●			●	●	●		
7	Iowa	●	●	●				●	●	●	●	●		
	Kansas	●		●	●			●	●	●	●			
	Missouri	●		●			●	●	●				●	●
	Nebraska	●		●				●			●			
8	Colorado	●	●	●				●	●	●	●			
	Montana	●	●	●	●		●							
	North Dakota	●		●				●						
	South Dakota	●		●				●						
	Utah	●	●	●	●		●							
	Wyoming	●	●	●				●	●	●	●			
9	Arizona	●	●	●				●		●	●			
	California†	●	●	●	●		●					●		●
	Hawaii	●			●									
	Nevada	●	●	●			●	●	●	●	●			
10	Alaska	●				●	●	●						
	Idaho	●	●		●		●	●						
	Oregon	●	●	●	●				●	●				●
	Washington	●				●								

* Excluding New Source Performance Standards criteria.
† Each Air Pollution Control District has individual criteria for fuel burning regulations. For summary purposes, "typical" criteria is specified.

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as 10 MM Btu/hr and 100 MM Btu/hr. In general, larger facilities must comply with lower emission limits.

About half of the States list separate emission limits for new and existing sources. However, only seven States actually have different limits for new versus existing sources. In these cases, the emission limits for new sources are lower than for existing sources.

Finally, about half of the States have different emission limits depending on geographical location. Area designations on which these limits are based include political boundaries (such as counties or cities).

2.2 EMISSION LIMIT COMPARISON

Comparisons of the most representative SIP emission limits for each State are presented in common units of pounds sulfur dioxide per million Btu heat input (lb SO_2/MM Btu) in Tables 2-2 and 2-3 for residual fuel oil and solid fossil fuels, respectively. For purposes of comparison, the most representative emission limits were assumed to be those that would be applicable over the largest area of the State. This assumption is reasonable from a nationwide standpoint, but it does tend to misrepresent those States where the majority of SO_2 sources are confined to a small area where a specific SO_2 emission limit applies. In some cases, an emission limit greater than that allowed under the Federal NSPS is listed in Table 2-2 and 2-3. This higher limit is shown because it could apply to a wider variety of sources than those defined under applicable NSPS. However, it should be understood that the NSPS would supersede less stringent SIP limits when a source is subject to both regulations.

Overall review of the information contained in Tables 2-2 and 2-3 reveals the following information regarding SO_2 emission limits. First, within a specific State there is generally no variation in allowable emissions due to facility size (MM Btu/hr). Exceptions to this rule are States such as Kentucky and Nevada, which specify emission limits by equations, and New York, Vermont, Georgia, Illinois, Michigan, Colorado, and Hawaii, which have lower limits for sources greater than 250 MM Btu/hr compared to smaller sources. Second, emission limits for residual oil are more stringent than those for coal in a number of States such as

TABLE 2-2. REPRESENTATIVE STATE SULFUR DIOXIDE EMISSIONS LIMITATIONS FOR FACILITIES BURNING #5 OR #6 FUEL OIL
($lbs SO_2/MM Btu$)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
1	Connecticut:					
	Existing	0.55	0.55	0.55	0.55	0.55
	New	0.55	0.55	0.55	0.55	0.55
	Maine[a,j]:					
	Existing	2.4	2.4	2.4	2.4	2.4
	New	2.4	2.4	2.4	2.4	2.4
	Massachusetts[b,c,j]:					
	Existing	1.1	1.1	1.1	1.1	1.1
	New	1.1	1.1	1.1	1.1	1.1
	New Hampshire[a,j]:					
	Existing	2.1	2.1	2.1	2.1	2.1
	New	2.1	2.1	2.1	2.1	2.1
	Rhode Island[j]:					
	Existing	1.1	1.1	1.1	1.1	1.1
	New	1.1	1.1	1.1	1.1	1.1
	Vermont:					
	Existing	3.48[a]	3.48[a]	3.48[a]	0.8	0.8
	New	3.48[a]	3.48[a]	3.48[a]	0.8	0.8
2	New Jersey[b,j]:					
	Existing	1.05	1.05	1.05	1.05	1.05
	New	1.05	1.05	1.05	1.05	1.05
	New York[a]:					
	Existing	2.1	2.1	2.1	2.1	2.1
	New	2.1	2.1	2.1	0.77	0.77
3	Delaware[a,b,j]:					
	Existing	1.8	1.8	1.8	1.8	1.8
	New	1.8	1.8	1.8	1.8	1.8
	Maryland[a,b,j]:					
	Existing	N.A.[d]	2.1	2.1	2.1	2.1
	New	N.A.[d]	2.1	2.1	2.1	2.1
	Pennsylvania[j]:					
	Existing	4.0	4.0	4.0	4.0	4.0
	New	4.0	4.0	4.0	4.0	4.0
	Virginia[j]:					
	Existing	2.64	2.64	2.64	2.64	2.64
	New	2.64	2.64	2.64	2.64	2.64
	Distric of Columbia[a,j]:					
	Existing	1.05	1.05	1.05	1.05	1.05
	New	1.05	1.05	1.05	1.05	1.05

(continued)

TABLE 2-2. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input) 10	100	250	1,000	10,000
	West Virginia[j]:					
	Existing	1.6	1.6	1.6	1.6	1.6
	New	1.6	1.6	1.6	1.6	1.6
4	**Alabama**[j]:					
	Existing	4.0	4.0	4.0	4.0	4.0
	New	4.0	4.0	4.0	4.0	4.0
	Florida[e]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	2.75	2.75
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	Georgia[f,j]:					
	Existing	2.6	3.1	3.1	3.1	3.1
	New	2.6	3.1	0.8	0.8	0.8
	Kentucky[b]:					
	Existing	6.0	4.49	4.0	4.0	4.0
	New	N.A.[d]	1.17	0.8	N.A.[h]	N.A.[h]
	Mississippi[j]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	4.8	4.8	4.8	4.8	4.8
	North Carolina[j]:					
	Existing	2.3	2.3	2.3	2.3	2.3
	New	2.3	2.3	2.3	2.3	2.3
	South Carolina[j]:					
	Existing	3.5	3.5	3.5	3.5	3.5
	New	3.5	3.5	3.5	3.5	3.5
	Tennessee[e,j]:					
	Existing	5.0	5.0	5.0	5.0	5.0
	New	5.0	5.0	5.0	5.0	5.0
5	**Illinois**[j]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	1.0	1.0	1.0	1.0	1.0
	Indiana[j]:					
	Existing	6.0	6.0	6.0	6.0	6.0
	New	6.0	6.0	6.0	6.0	6.0
	Michigan[j]:					
	Existing	1.7	1.7	1.7	1.1	1.1
	New	1.7	1.7	1.7	1.1	1.1
	Minnesota[e,j]:					
	Existing	2.0	2.0	2.0	2.0	2.0
	New	2.0	2.0	2.0	2.0	2.0
	Ohio[e,j]:					
	Existing	N.A.[d]	1.6	1.6	1.6	1.6
	New	1.6	1.6	1.6	1.6	1.6

(continued)

TABLE 2-2. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
	Wisconsin[e]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	0.8	0.8
6	Arkansas[h]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	Louisiana[i,j]:					
	Existing	4.6	4.6	4.6	4.6	4.6
	New	4.6	4.6	4.6	4.6	4.6
	New Mexico:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	Oklahoma:					
	Existing	0.8	0.8	0.8	0.8	0.8
	New	0.8	0.8	0.8	0.8	0.8
	Texas[e,i,j]:					
	Existing	0.94	0.94	0.94	0.94	0.94
	New	0.94	0.94	0.94	0.94	0.94
7	Iowa[j]:					
	Existing	2.5	2.5	2.5	2.5	2.5
	New	2.5	2.5	2.5	2.5	2.5
	Kansas[j]:					
	Existing	3.0[c]	3.0[c]	3.0[c]	3.0[c]	3.0[c]
	New	3.0[c]	3.0[c]	3.0[c]	3.0[c]	3.0[c]
	Missouri[j]:					
	Existing	8.0	8.0	8.0	8.0	8.0
	New	8.0	8.0	8.0	8.0	8.0
	Nebraska[j]:					
	Existing	2.5	2.5	2.5	2.5	2.5
	New	2.5	2.5	2.5	2.5	2.5
8	Colorado:					
	Existing	1.5	1.5	1.5	0.8	0.8
	New	0.8	0.8	0.3	0.3	0.3
	Montana[c,j]:					
	Existing	2.0	2.0	2.0	2.0	2.0
	New	2.0	2.0	2.0	2.0	2.0
	North Dakota[j]:					
	Existing	3.0	3.0	3.0	3.0	3.0
	New	3.0	3.0	3.0	3.0	3.0

(continued)

TABLE 2-2. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
	South Dakota[j]:					
	Existing	3.0	3.0	3.0	3.0	3.0
	New	3.0	3.0	3.0	3.0	3.0
	Utah[c,j]:					
	Existing	1.7	1.7	1.7	1.7	1.7
	New	1.7	1.7	1.7	1.7	1.7
	Wyoming:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	0.8	0.8
9	Arizona:					
	Existing	N.A.	N.A.	2.2	2.2	2.2
	New	N.A.	N.A.	N.A	N.A.	N.A.
	California[a,b]:					
	Existing	0.53	0.53	0.53	0.53	0.53
	New	0.53	0.53	0.53	0.53	0.53
	Hawaii[a,j]:					
	Existing	2.1	2.1	0.5	0.5	0.5
	New	2.1	2.1	0.5	0.5	0.5
	Nevada[c,j]:					
	Existing	0.7	0.7	0.4	0.4	0.4
	New	N.A.	N.A.	N.A.	N.A.	N.A.
10	Alaska[i,j]:					
	Existing	1.14	1.14	1.14	1.14	1.14
	New	1.14	1.14	1.14	1.14	1.14
	Idaho[a,j]:					
	Existing	1.85	1.85	1.85	1.85	1.85
	New	1.85	1.85	1.85	1.85	1.85
	Oregon[a,j]:					
	Existing	1.85	1.85	1.85	1.85	1.85
	New	1.85	1.85	1.85	1.85	1.85
	Washington[i,j]:					
	Existing	2.29	2.29	2.29	2.29	2.29
	New	2.29	2.29	2.29	2.29	2.29

---

[a] Emissions limitation is expressed in percent sulfur content of the fuel. Conversion to lbs SO_2/MM Btu is based on the assumptions of 100 percent conversion of sulfur to sulfur dioxide, and a heating value of 19,000 Btu/lb (residual oil). The following equation calculates the equivalent emission rate:

$$\text{Emission Rate (lbs } SO_2\text{/MM Btu)} = \frac{1{,}000{,}000 \text{ Btu/MM Btu}}{\text{Heating Value (Btu/lb)}} \times (\%S)\ (2 \text{ lbs } SO_2\text{/lb S})$$

[b] Emissions limitations were not expressed for the entire state. The median value was selected for comparison.

[c] Emissions limitations were expressed as lb S/MM Btu. The following equation calculates the equivalent emission rate:

$$\text{Emission Rate (lbs } SO_2\text{/MM Btu)} = 2 \times \text{(lbs S/MM Btu)}$$

TABLE 2-2. (Continued)

[d] Refers to "Not Applicable" for comparison purposes only. Either SO_2 emissions are not regulated in that State for a specific size category or for other reasons cannot be specified.

[e] Emissions limitations are expressed for individual sources and counties. The value shown represents only limitations that apply to the largest area of state.

[f] The State regulation limits both fuel sulfur content and the SO_2 emissions rate depending on stack height. However, only the limits on fuel sulfur content are included in the SIP.

[g] Emissions limitations are based on effective stack height for entire plant (equation).

[h] Emissions limitations are based on federal regulations.

[i] Emissions limitation is expressed in parts per million (ppm). Conversion to lbs SO_2/MM Btu was based on the assumptions that F factors (dry basis) were 9,820 dscf/MM Btu (coal) and 9,220 dscf/MM Btu (oil), and a 6 percent oxygen content in the flue gas. The following equations calculate the equivalent emission rate at standard temperature (20°C or 68°F) and pressure 760 MM Hg or 29.92 in. Hg):

$$C = 1.660 \times 10^{-7} \text{ (x ppm)}$$

$$E = C\,F_d\,\frac{20.9}{20.9\text{-percent } O_2}$$

where: E = pollutant emissions (lbs SO_2/MM Btu)

C = pollutant concentration (lbs SO_2/dscf)

F_d = dry basis F factor, which is the ratio of the volume of dry flue gases generated to the calorific value of the fuel combusted

[j] New source performance standards (40 CFR 60.40 and 60.40a) supersede less stringent State emission limits when applicable to a new combustion source.

TABLE 2-3. REPRESENTATIVE STATE SULFUR DIOXIDE EMISSIONS LIMITATIONS FOR FACILITIES BURNING SOLID FOSSIL FUEL ($\text{lbs } SO_2/\text{MM Btu}$)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
1	Connecticut:					
	Existing	1.1	1.1	1.1	1.1	1.1
	New	1.1	1.1	1.1	1.1	1.1
	Maine[a,j]:					
	Existing	2.4	2.4	2.4	2.4	2.4
	New	2.4	2.4	2.4	2.4	2.4
	Massachusetts[b,c]:					
	Existing	1.1	1.1	1.1	1.1	1.1
	New	1.1	1.1	1.1	1.1	1.1
	New Hampshire[j]:					
	Existing[a]	5.6	5.6	5.6	5.6	5.6
	New[c]	3.0	3.0	3.0	3.0	3.0
	Rhode Island[j]:					
	Existing	1.1	1.1	1.1	1.1	1.1
	New	1.1	1.1	1.1	1.1	1.1
	Vermont:					
	Existing	3.3	3.3	3.3	1.2	1.2
	New	3.3	3.3	3.3	1.2	1.2
2	New Jersey[b]:					
	Existing	0.3	0.3	0.3	0.3	0.3
	New	0.3	0.3	0.3	0.3	0.3
	New York[a]:					
	Existing	N.A.[d]	4.13	4.13	4.13	4.13
	New	N.A.[d]	4.13	4.13	1.04	1.04
3	Delaware[a,b,j]:					
	Existing	1.65	1.65	1.65	1.65	1.65
	New	1.65	1.65	1.65	1.65	1.65
	Maryland[b,j]:					
	Existing	N.A.[d]	3.5	3.5	3.5	3.5
	New	N.A.[d]	3.5	3.5	3.5	3.5
	Pennsylvania[j]:					
	Existing	4.8	4.8	4.8	4.8	4.8
	New	4.8	4.8	4.8	4.8	4.8
	Virginia[j]:					
	Existing	2.64	2.64	2.64	2.64	2.64
	New	2.64	2.64	2.64	2.64	2.64
	District of Columbia[a,j]:					
	Existing	1.65	1.65	1.65	1.65	1.65
	New	1.65	1.65	1.65	1.65	1.65

(continued)

TABLE 2-3. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
	West Virginia[j]:					
	Existing	1.6	1.6	1.6	1.6	1.6
	New	1.6	1.6	1.6	1.6	1.6
4	Alabama[j]:					
	Existing	4.0	4.0	4.0	4.0	4.0
	New	4.0	4.0	4.0	4.0	4.0
	Florida[e]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	6.17	6.17
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	Georgia[f,j]:					
	Existing	4.1	5.0	5.0	5.0	5.0
	New	4.1	5.0	1.2	1.2	1.2
	Kentucky:					
	Existing	9.0	6.73	6.0	6.0	6.0
	New	5.0	1.8	1.20	0.65	0.23
	Mississippi[j]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	4.8	4.8	4.8	4.8	4.8
	North Carolina[j]:					
	Existing	2.3	2.3	2.3	2.3	2.3
	New	2.3	2.3	2.3	2.3	2.3
	South Carolina[j]:					
	Existing	3.5	3.5	3.5	3.5	3.5
	New	3.5	3.5	3.5	3.5	3.5
	Tennessee[e,j]:					
	Existing	5.0	5.0	5.0	5.0	5.0
	New	5.0	5.0	5.0	5.0	5.0
5	Illinois:					
	Existing	6.8	6.8	6.8	N.A.[g]	N.A.[g]
	New	1.8	1.8	1.8	1.2	1.2
	Indiana[j]:					
	Existing	6.0	6.0	6.0	6.0	6.0
	New	6.0	6.0	6.0	6.0	6.0
	Michigan[j]:					
	Existing	2.4	2.4	2.4	1.6	1.6
	New	2.4	2.4	2.4	1.6	1.6
	Minnesota[e,j]:					
	Existing	4.0	4.0	4.0	4.0	4.0
	New	4.0	4.0	4.0	4.0	4.0
	Ohio[b,j]:					
	Existing	3.6	3.6	3.6	3.6	3.6
	New	3.6	3.6	3.6	3.6	3.6

(continued)

TABLE 2-3. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
	Wisconsin[g]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	1.2	1.2
6	Arkansas[h]:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
	Louisiana[i,j]:					
	Existing	4.6	4.6	4.6	4.6	4.6
	New	4.6	4.6	4.6	4.6	4.6
	New Mexico:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	1.2	1.2
	New	N.A.[d]	N.A.[d]	N.A.[d]	1.2	1.2
	Oklahoma:					
	Existing	1.2	1.2	1.2	1.2	1.2
	New	1.2	1.2	1.2	1.2	1.2
	Texas[e,j]:					
	Existing	3.0	3.0	3.0	3.0	3.0
	New	3.0	3.0	3.0	3.0	3.0
7	Iowa:					
	Existing	6.0	6.0	6.0	6.0	6.0
	New	6.0	6.0	6.0	N.A.[d]	N.A.[d]
	Kansas[j]:					
	Existing	3.0[c]	3.0[c]	3.0[c]	3.0[c]	3.0[c]
	New	3.0[c]	3.0[c]	3.0[c]	3.0[c]	3.0[c]
	Missouri[j]:					
	Existing	8.0	8.0	8.0	8.0	8.0
	New	8.0	8.0	8.0	8.0	8.0
	Nebraska[j]:					
	Existing	2.5	2.5	2.5	2.5	2.5
	New	2.5	2.5	2.5	2.5	2.5
8	Colorado:					
	Existing	1.8	1.8	1.8	1.2	1.2
	New	1.2	1.2	1.2	0.4	0.4
	Montana[c,j]:					
	Existing	2.0	2.0	2.0	2.0	2.0
	New	2.0	2.0	2.0	2.0	2.0
	North Dakota[j]:					
	Existing	3.0	3.0	3.0	3.0	3.0
	New	3.0	3.0	3.0	3.0	3.0

(continued)

TABLE 2-3. (Continued)

EPA Region	State	Facility Size (MM Btu/hr Heat Input)				
		10	100	250	1,000	10,000
	South Dakota[j]:					
	Existing	3.0	3.0	3.0	3.0	3.0
	New	3.0	3.0	3.0	3.0	3.0
	Utah[c,j]:					
	Existing	2.0	2.0	2.0	2.0	2.0
	New	2.0	2.0	2.0	2.0	2.0
	Wyoming:					
	Existing	N.A.[d]	N.A.[d]	N.A.[d]	1.2	0.3
	New	N.A.[d]	N.A.[d]	N.A.[d]	0.2	0.2
9	Arizona:					
	Existing	1.0	1.0	1.0	1.0	1.0
	New	0.8	0.8	0.8	0.8	0.8
	California[a,b]:					
	Existing	0.83	0.83	0.83	0.83	0.83
	New	0.83	0.83	0.83	0.83	0.83
	Hawaii[a,j]:					
	Existing	3.3	3.3	0.83	0.83	0.83
	New	3.3	3.3	0.83	0.83	0.83
	Nevada[c]:					
	Existing	0.7	0.7	0.6	0.6	0.6
	New	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]	N.A.[d]
10	Alaska[i]:					
	Existing	1.14	1.14	1.14	1.14	1.14
	New	1.14	1.14	1.14	1.14	1.14
	Idaho[a,j]:					
	Existing	1.65	1.65	1.65	1.65	1.65
	New	1.65	1.65	1.65	1.65	1.65
	Oregon[a,j]:					
	Existing	1.65	1.65	1.65	1.65	1.65
	New	1.65	1.65	1.65	1.65	1.65
	Washington[i,j]:					
	Existing	2.29	2.29	2.29	2.29	2.29
	New	2.29	2.29	2.29	2.29	2.29

[a] Emissions limitation is expressed in percent sulfur content of the fuel. Conversion to lbs SO_2/MM Btu was based on the assumptions of 95 percent conversion of sulfur to sulfur dioxide, and a heating value of 11,500 Btu/lb (coal). The following equation calculates the equivalent emission rate:

$$\text{Emission Rate (lbs } SO_2\text{/MM Btu)} = .95 \; \frac{\text{1,000,000 Btu/MM Btu}}{\text{Heating Value (Btu/lb)}} \; x \; (\%S) \; (2 \text{ lbs } SO_2\text{/lb S})$$

[b] Emissions limitations were not expressed for the entire state. The median value was selected for comparison.

[c] Emissions limitations were expressed as lb S/MM Btu. The following equation calculates the equivalent emission rate:

$$\text{Emission Rate (lbs } SO_2\text{/MM Btu)} = 2 \; x \; \text{(lbs S/MM Btu)}$$

TABLE 2-3. (Continued)

[d] Refers to "Not Applicable" for comparison purposes. Either emission were not regulated in that State for a specific size category or for other reason specified.

[e] Emissions limitations are expressed for individual sources and counties. The value shown represents only limitations that apply to the largest area of state.

[f] The State regulation limits both fuel sulfur content and the SO_2 emissions rate depending on stack height. However, only the limits on fuel sulfur content are included in the SIP.

[g] Emissions limitations are based on effective stack height for entire plant (equation).

[h] Emissions limitations are based on federal regulations.

[i] Emissions limitation is expressed in parts per million (ppm). Conversion to lbs SO_2/MM Btu was based on the assumptions that F factors (dry basis) were 9,820 dscf/MM Btu (coal) and 9,220 dscf/MM Btu (oil), and a 6 percent oxygen content in the flue gas. The following equations calculate the equivalent emission rate at standard temperature (20°C or 68°F) and pressure 760 mm Hg or 29.92 in. Hg):

$$C = 1.660 \times 10^{-7} \text{ (x ppm)}$$

$$E = C\ F_d \ \frac{20.9}{20.9\text{-percent } O_2}$$

where: E = pollutant emissions (lbs SO_2/MM Btu)

C = pollutant concentration (lbs SO_2/dscf)

F_d = dry basis F factor, which is the ratio of the volume of dry flue gases generated to the calorific value of the fuel combusted

[j] New source performance standards (40 CFR 60.40 and 60.40a) supersede less stringent State emission limits when applicable to a new combustion source.

Connecticut, New Hampshire, Vermont, New Jersey, New York, Delaware, Maryland, Pennsylvania, Florida, Georgia, Kentucky, Illinois, Michigan, Minnesota, Ohio, Wisconsin, Oklahoma, Texas, Iowa, Colorado, Montana, Utah, Wyoming, Arizona, California, Nevada, Idaho, and Oregon. Other States do not differentiate between fuel types. Finally, most States have the same emission limits for new and existing sources. In seven States, however, the emission limit for new sources is lower than for existing sources. These States include New York, Georgia, Colorado, New Hampshire, Kentucky, Illinois, and Arizona.

Figures 2-1 and 2-2 are histograms describing the numbers of States requiring specific levels of SO_2 control. Figure 2-1 presents the limits that would apply to a boiler burning 250 MM Btu/hr of residual oil. Such a boiler burning oil with 3 percent sulfur would, for example, emit about 3.2 lbs SO_2/MM Btu and would meet the applicable emission limit in only 8 States.

Figure 2-2 presents the limits that would apply to a boiler burning 250 MM Btu/hr of coal. Since half of the States (25) have limits of less than 3 lbs SO_2/MM Btu, an average sulfur content of less than about 2 percent would be required to meet the emission limit.

2.3 SO_2 EMISSIONS AND CONTROLS

Approximate ranges of controlled and uncontrolled SO_2 emissions are presented in Table 2-4 for hypothetical coal-fired and oil-fired combustion sources. This table shows that bituminous coal with 3.0 percent average sulfur and a heating value of 11,500 Btu/hr would emit about 5 lbs SO_2/MM Btu and could meet (on a monthly or annual average) the SO_2 emission limit in about 5 States. This same coal could be physically cleaned to reduce the emission rate (lbs SO_2/MM Btu) 20 to 50 percent. On a long-term basis, it could then meet the standards of up to 21 States. Various flue gas desulfurization (FGD) systems could be used to reduce SO_2 emissions 90 percent and allow that facility to meet the regulations of most States.

With respect to oil-fired combustion sources, about 2.1 lb SO_2/MM Btu would be emitted if No. 6 fuel oil at 3.0 percent sulfur were used. Such a source would meet the applicable emission limits in about half of the

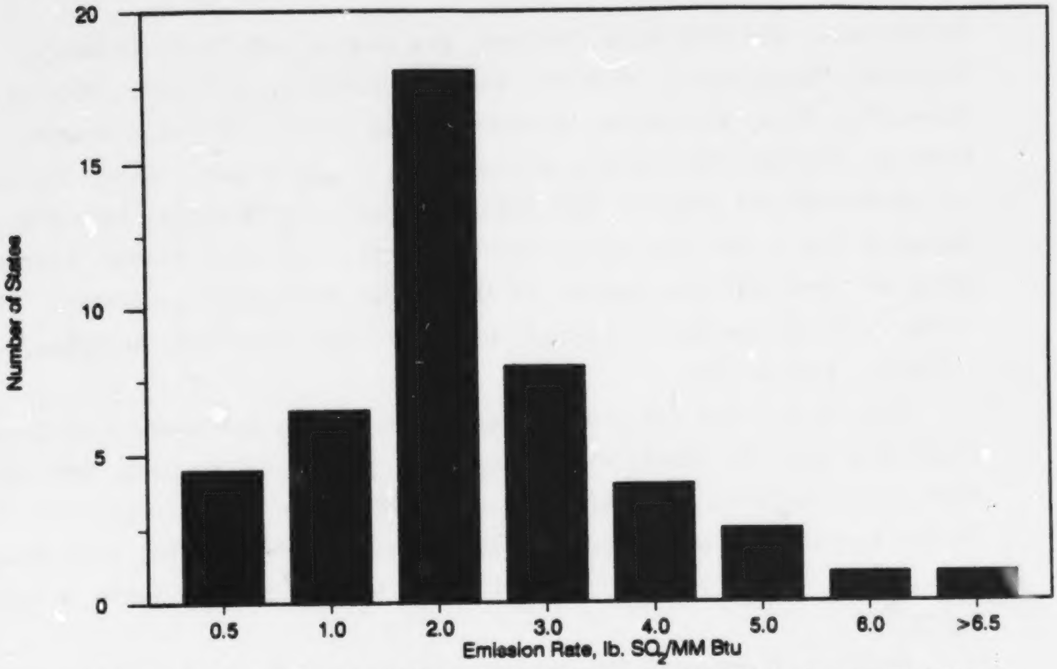

Figure 2-1. Maximum Allowable SO_2 Emission Rate for an Existing 250 MM Btu/hr Residual Oil Fired Boiler

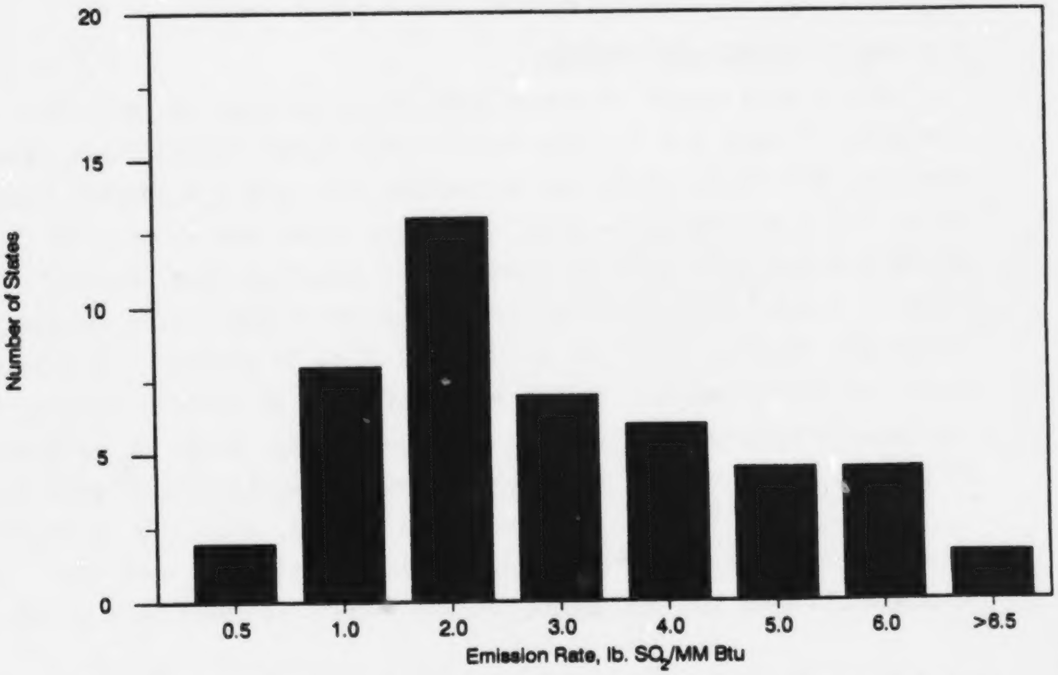

Figure 2-2. Maximum Allowable SO_2 Emission Rate for an Existing 250 MM Btu/hr Coal Fired Boiler

TABLE 2-4. SUMMARY OF SO_2 EMISSION RATES FOR HYPOTHETICAL COAL-FIRED AND OIL-FIRED COMBUSTION SOURCES

SO_2 control	Emission Rate (lb SO_2/MM Btu) Coal-fired unit[a]	Emission Rate (lb SO_2/MM Btu) Oil-fired unit[b]	Control Efficiency (%) Coal-fired unit	Control Efficiency (%) Oil-fired unit
None (uncontrolled)	5.0	2.1	N/A[c]	N/A[c]
Physical coal cleaning	2.5 - 4.0	N/A[c]	20 - 50	20 - 50
Limestone FGD	0.25 - 0.75	0.11 - 0.32	85 - 95	85 - 95
Dual alkali FGD	0.25 - 1.5	0.21	90 - 95	90
Dry scrubbing FGD (spray drying)	0.5 - 1.5	0.21 - 0.63	70 - 90	70 - 90

[a] Estimates assume bituminous coal at 11,500 Btu/lb and 3.0% S.

[b] Estimates assume No. 6 fuel oil at 19,000 Btu/lb and 2.0% S.

[c] N/A = not applicable.

States. Application of various FGD systems could reduce SO_2 emissions so that compliance could be achieved in most States. Alternatively, oil cleaning can reduce the sulfur content to 0.5 percent, which would meet the regulations of most States.

emitted as sulfur dioxide. Estimates of SO_2 emission rates from fuel oil combustion can generally be made using the following equations.

Residual oil - lbs SO_2/MM Btu = 1.05 x % S in fuel

Distillate oil - lbs SO_2/MM Btu = 1.0 x % S in fuel

These equations are based on the general assumptions that residual oils have an approximate heating value of 150,000 Btu/gallon and distillate oils have a value of 140,000 Btu/gallon.[1] Thus, combustion of a 2.3 percent sulfur residual oil would have a resultant emission rate of approximately 2.4 lbs SO_2/MM Btu of heat input.

For the combustion of coal, about 5 percent of the coal's sulfur remains in the bottom ash and thus 95 percent is emitted as sulfur dioxide.[1] To estimate the emission rate in lb SO_2/MM Btu, one only needs to know the percent sulfur and the heating value in Btu/lb. The following procedure can then be used for estimation:

lbs SO_2/MM Btu = CF x % S in coal

where CF is,

Btu/lb	CF
10,000	1.9
10,500	1.81
11,000	1.73
11,500	1.65
12,000	1.58
12,500	1.52

Thus, a coal of 3 percent sulfur content and a heating value of 11,500 Btu/lb would have an approximate SO_2 emission rate of 5 lbs/MM Btu.

The normal range of SO_2 emissions (lb SO_2/MM Btu) is presented in Table 3-1. The range of emission rates was maximized by assuming the lowest sulfur fuel had the highest heating value and the highest sulfur fuel had the lowest heating value. There is, however, no direct correlation of sulfur content and heating value in nature.

TABLE 3-1. RANGE OF SULFUR CONTENTS, HEATING VALUES AND POTENTIAL SULFUR DIOXIDE EMISSION RATES FOR TYPICAL FUELS

Fuel	% Sulfur (by weight)	Heating value (Btu/lb as burned)	SO_2 emissions lb/MM Btu
Pipeline natural gas	Negligible	-	-
Wood - typical	0.02	4,560	0.1
Bark - typical	0.02	4,370	0.1
Distillate oil[2]			
#1	0.01 - 0.5	19,670 - 19,860	0.01 - 0.5
#2	0.05 - 1.0	19,170 - 19,750	0.05 - 1.0
#4	0.2 - 2.0	18,280 - 19,400	0.2 - 2
Residual oil[2]			
#5	0.5 - 3.0	18,100 - 19,020	0.5 - 3
#6	0.7 - 3.5	17,410 - 18,990	0.7 - 4
Anthracite coal[2]	0.6 - 0.8	11,925 - 12,925	0.9 - 1
Bituminous coal[2]	0.7 - 6.1	9,700 - 14,715	0.9 - 12
Subbituminous coal[2]	0.3 - 0.6	8,320 - 11,340	0.5 - 1
Lignite coal[2]	0.4 - 0.9	6,500 - 9,700	0.8 - 3

It can be seen that a low sulfur (.01 percent) distillate oil could yield as little of 0.01 lb SO_2/MM Btu of fuel burned while a high sulfur (6.1 percent) bituminous coal could yield as much as 12 lb SO_2/MM Btu. Wood and bark have very low sulfur contents, as well as low heating values; therefore, SO_2 emission fall in the same range as those from #1 or #2 fuel oil.

3.2 DISCUSSION OF SO_2 EMISSION REGULATIONS

3.2.1 State SO_2 Regulations

Several approaches to regulating SO_2 emissions from fuel combustion have been adopted by States in order to attain and maintain the NAAQS. The regulations applicable in each State are delineated in Chapter 5 along with notes on procedures such as test methods, averaging time, monitoring and reporting requirements used to determine compliance.

A review of Chapter 5 indicates that State SO_2 emission regulations generally limit the amount of SO_2 which can be emitted per million Btu heat input to the furnace (lb SO_2/MM Btu) or the sulfur content of the fuels which can be burned. The following paragraphs give examples of parameters in different States that affect the stringency of emission limits applicable to an individual source.

The New York State SIP, for example, contains very detailed limits on fuel sulfur content. To determine the limit applicable to a particular source, it is necessary to first know its location (county or municipality). The total heat (Btu/hr) actually being burned in all furnaces at the facility is the next important factor. A facility with 10 MM Btu/hr or less is not regulated. In some areas of the State different limits apply to facilities with total heat input greater than 250 MM Btu/hr. Limits are different for existing sources (constructed before March 15, 1973) and new sources (constructed after March 15, 1973), and for oil and solid fuel. Compliance with the sulfur-in-fuel limits is determined by stack testing (EPA Method 6) and fuel analysis to determine sulfur and ash content, heating value and specific gravity (oil). The gross heat content and ash content of the fuel burned on a weekly basis must be monitored for all facilities with a total heat input greater than 250 MM Btu/hr. Continuous monitoring of stack SO_2 emissions is required of new facilities with heat input greater than 250 MM Btu/hr.

Pennsylvania regulations limit sulfur-in-fuel and SO_2 emission rate (lb/MM Btu) depending on the location, the design fuel burning capacity of each furnace and the type of fuel burned. An equation dictates the emission limit for furnaces with heat input capacity greater than or equal to 50 MM Btu/hr, but less than 2,000 MM Btu/hr and located in the Allegheny County, Beaver Valley, Monongahela Valley air basin. The allowable SO_2 emission rate for furnaces burning solid fossil fuels varies with averaging time. For example, the measured emission rate must always fall below 4.8 lb SO_2/MM Btu in areas I and II. Also, the average of all readings for one day (24-hour period) must fall below 4.0 lb/MM Btu (except for two days per month) and the emission average over 30 days must fall below 3.7 lb/MM Btu.

In Virginia and Nevada the emission limits (lbs SO_2/hr) are based on equations which are functions of the actual heat input to a single furnace. Compliance is determined in Virginia by stack testing using EPA Method 6 or other State-approved procedures (3 runs) and in Nevada by stack testing using a method specified by the State in the operating permit (2 runs).

Georgia limits the sulfur content of the fuel burned or <2.5 percent for furnaces actually burning less than 100 MM Btu/hr and to ≤ 3.0 percent for furnaces burning 100 MM Btu/hr or greater of fuel. It also limits the SO_2 emission rate (lb SO_2/MM Btu) based on equations which are functions of the furnace exhaust stack height. The limits based on stack height are not part of the Georgia SIP, however.

Allowable emission rates (lb SO_2/MM Btu) in Kentucky vary with the location (county), facility size (total plant heat input), and type fuel (solid or liquid). The emission rates are determined by equations for facilities larger than 10 MM Btu/hr and smaller than 250 MM Btu/hr. Compliance is determined by stack testing using EPA Method 6.

SO_2 emission concentrations in Louisiana, the State of Washington, and Alaska are limited to $\leq 2,000$ ppm, $\leq 1,000$ ppm, and ≤ 500 ppm, respectively. These limits apply in all locations, to all size furnaces and all fuels in each case.

3.2.2 Federal SO_2 Regulations

EPA has promulgated standards of performance for the following classes of fuel combustion units: (1) Fossil-Fuel Steam Generating Units >250 MM Btu/hr (which commenced construction after August 17, 1971); (2) Electric Utility Steam Generating Units Capable of Combusting >250 MM Btu/hr (which commenced construction after September 18, 1978); (3) Industrial- Commercial-Institutional Steam Generating Units; and (4) Stationary Gas Turbines. A summary of the provisions of these NSPS is contained in Appendix A.

Subpart D is applicable to all fossil-fuel fired steam generating units and all fossil-fuel and wood residue fired steam generating units capable of burning more than 250 MM Btu/hr of fuel, irrespective of the use of the steam produced. Compliance with the emission limit is determined by continuously monitoring the flue gas and calculating an arithmetic average of the SO_2 emission rate (lb SO_2/MM Btu) for three contiguous one-hour periods.

Subpart Da was designed to update (and supersede) Subpart D for electric utility boilers (with design heat input capacity greater than 250 MM Btu/hr) in accordance with the 1977 Amendments to the CAA. Compliance with this regulation is generally determined by continuously monitoring SO_2 concentrations in the flue gas before and after a flue gas desulfurization system (FGD) and calculating the arithmetic average of all hourly emission rates (lb SO_2/MM Btu) for 30 successive days of normal operation.

Subpart Db is applicable to steam generating units with a heat input capacity greater than 100 MM Btu/hr. Compliance with the emission limit and percent reduction requirement of the standard is determined by continuously monitoring the flue gas and calculating the arithmetic average of all hourly emission rates (lb SO_2/MM Btu) for 30 successive days of normal operation.

Subpart GG is applicable to stationary gas turbines with a heat input greater than 100 MM Btu/hr. The emission limits include a restriction on the sulfur dioxide concentration in the exhaust gas, as well as a limit on the fuel sulfur content. Compliance is determined by daily monitoring of the fuel sulfur content after an initial performance test shows compliance with the outlet concentration limit.

3.3 REFERENCES

1. U.S. Environmental Protection Agency. Compilation of Air Pollution Emission Factors. AP-42. Office of Air Quality Planning and Standards. Supplement No. 6. April 1976. p. 1.1-1.3.

2. "Steam: It's Generation and Use." Babcock and Wilcox, New York, New York, 1975. p. 5-11 and 5-19.

4. CONTROL OF SO_2 EMISSIONS

There are three basic types of control technologies for reducing SO_2 emissions from combustion sources. These technologies include flue gas desulfurization (FGD), fluidized bed combustion (FBC), and fuel cleaning. Flue gas desulfurization technologies can be classified as either wet or dry, according to the final form of the SO_2-waste generated.

4.1 FLUE GAS DESULFURIZATION (FGD)

4.1.1 Wet FGD Processes

Wet FGD processes use an alkaline solution or slurry to adsorb SO_2 from the combustion unit flue gas. Typically, chemical solutions such as sodium, dual alkali, limestone, or lime are used. In the wet process, the adsorbed SO_2 exits the system either as a liquid waste stream or as a semi-solid waste sludge.

Sodium. Sodium scrubbers represent the most common type of wet FGD process, particularly for industrial boilers. These scrubbers use an aqueous solution of sodium hydroxide (NaOH), sodium carbonate (Na_2CO_3), sodium bicarbonate ($NaHCO_3$), or a mixture of these to adsorb SO_2. The effectiveness of sodium scrubbers at reducing SO_2 emissions is high. With coal, SO_2 reductions of about 95 to 98 percent can be expected. With oil, SO_2 reductions of about 90 to 95 percent can be expected.[1]

Dual alkali. Dual alkali systems use a clear sodium alkali solution to absorb SO_2, followed by a step involving lime or limestone to regenerate the active alkali for SO_2. These systems can achieve SO_2 emission reductions of about 90 to 95 percent for coal-fired systems and about 90 percent for oil-fired systems.[1]

Lime/Limestone. These processes employ wet scrubbers using a slurry of slaked lime ($CA(OH)_2$) or limestone ($CaCO_3$) to absorb SO_2 from the flue gas. Typical SO_2 reduction efficiencies for lime/limestone systems range from about 85 to 95 percent.[1]

4.1.2 Dry FGD Processes

Dry FGD processes use an alkaline solution or slurry to neutralize SO_2 from the flue gas, whereby the waste product is a dry solid. The most common dry FGD processes are spray drying and dry injection.

Spray drying. This FGD process involves contacting the flue gas with an atomized lime slurry or a solution of sodium carbonate. Generally, spray dryers can achieve SO_2 emission reductions of at least 70 percent and in some cases above 90 percent.[1]

Dry injection. This FGD process involves injecting a dry alkaline agent into the flue gas just prior to the particulate control device. The alkaline agent reacts with the SO_2, forming a solid, which is removed by the particulate matter control device. Dry injection systems have only been implemented in pilot-scale applications for fossil-fuel combustion sources.

4.2 FLUIDIZED BED COMBUSTION (FBC)

Fluidized bed combustion (FBC) is an alternative combustion technique for coal-fired boiler applications. A fluidized bed can increase heat transfer rates, thereby lowering heat transfer surface requirements. Furthermore, limestone added to the combustion bed enables SO_2 to be adsorbed immediately after combustion. Generally, FBC systems can achieve from 55 to over 90 percent SO_2 emission reductions.[1]

4.3 FUEL CLEANING

Precombustion control of SO_2 can be accomplished by either physically or chemically treating the fuel to remove sulfur.

4.3.1 Physical Coal Cleaning

Physical coal cleaning involves subjecting the coal to size reduction and screening, separation of coal-rich and impurity-rich fractions, dewatering, and drying. Separation of coal from its impurities is accomplished by gravity separation or froth flotation.

Physical coal cleaning can typically remove above 50 percent of the nonorganic (pyritic) sulfur present in coal. For high sulfur bituminous coal (Midwest, northern Appalachia) about 70 percent of the sulfur can be removed. For low sulfur coal (West, southern Appalachia), about 20 to 30 percent of the sulfur can be removed.[1]

4.3.2 Oil Cleaning

The sulfur content of fuel oil can be reduced by hydrodesulfurization or hydrotreating. These processes convert sulfur to gaseous hydrogen sulfide by contacting the oil with hydrogen and a catalyst (usually a composite made up of cobalt oxide, molybdenum oxide, and alumina). These gases are separated from the fuel and then collected. Current techniques can reduce the sulfur content to less than 0.5 percent.[2]

4.4 REFERENCES

1. U.S. Environmental Protection Agency. SO_2 Technology Update Report. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina. EPA-450/3-85-009. July 1984.

2. U.S. Environmental Protection Agency. Nonfossil Fuel Fired Industrial Boilers - Background Information. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina. EPA-450/3-82-007. March 1982.

5. INDIVIDUAL SIP REGULATIONS

The SO_2 emission regulations applicable in each State are delineated in the following pages. The States are presented by EPA Region and then alphabetically by state within each region.

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : CONNECTICUT
Region                     : 1
State Regulation Citation  : Title 22a, Chapter 174, sections 4, 5, and 19 (1)
----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Single fossil fuel or mixture of fuels
----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 1, by weight (2)
----------------------------------------------------------------------------------------------
Compliance Procedures              :: 1e, 2a, 2b1, 2c, 3a, 3e, 4g, 5b
1e.    Heat Input Determination => other  [The actual firing rate of the fuel burning equipment.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.   Test Methods             => fuel testing: ASTM  [D-2234 for sampling, D-2013 for sample preparation,
                                   D-3176 or D-3180 for the analysis of liquids, and D-129 or D-1552 for the
                                   analysis of solids.]
2c.    Test Methods             => other testing  [Fuel analysis or stack sampling, or both, may be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [When it is determined to be technically feasible
                                   by the Commissioner.]
3e.    Monitoring Requirements  => other  [Fuel analysis or stack sampling, or both, may be required.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [22a-174-4(c); Records and reports may be required by the
                                   Commissioner concerning air pollutants, fuels, and operational information,
                                   and shall be recorded, compiled, and submitted on forms furnished or
                                   prescribed by the Commissioner.]
----------------------------------------------------------------------------------------------
Footnotes:
(1)   The "Code of Federal Regulations" refers to Regulation 19-508-19, Control of Sulfur Compound Emissions.
(2)   A variance may be allowed during a fuel shortage emergency provided that the emissions do not exceed 1.1
      lbs SO2/MMBtu heat input.
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : CONNECTICUT
Region                      : 1
State Regulation Citation : Title 22a, Chapter 174, sections 4, 5, and 19 (1)
--------------------------------------------------------------------------------------------
Applicable Area             : Statewide; air pollution control/energy trade programs and periods of low sulfur
                              fuel shortage
Applicable Time Frame       : Global
Facility Type               : Fuel burning equipment
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Single fossil fuel or mixture of fuels
--------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Greater than 1.0, by weight, or
(lb SO2/MMBtu)              : Less than or equal to 0.55
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2b1, 2c, 3a, 3e, 4g, 5b
1e.   Heat Input Determination => other  [The actual firing rate of the fuel burning equipment.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.  Test Methods             => fuel testing: ASTM  [D-2234 for sampling, D-2013 for sample preparation,
                                  D-3176 or D-3180 for the analysis of liquids, and D-129 or D-1552 for the
                                  analysis of solids.]
2c.   Test Methods             => other testing  [Fuel analysis or stack sampling, or both, may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [When it is determined to be technically feasible
                                  by the Commissioner.]
3e.   Monitoring Requirements  => other  [Fuel analysis or stack sampling, or both, may be required.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [22a-174-4(c); Records and reports may be required by the
                                  Commissioner concerning air pollutants, fuels, and operational information,
                                  and shall be recorded, compiled, and submitted on forms furnished or
                                  prescribed by the Commissioner.]
--------------------------------------------------------------------------------------------
Footnotes:
(1)   The "Code of Federal Regulations" refers to Regulation 19-508-19, Control of Sulfur Compound Emissions.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : CONNECTICUT
Region                     : 1
State Regulation Citation : Title 22a, Chapter 174, sections 4, 5, and 19 (1)
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning equipment
Facility Size (MMBtu/hr)   : Greater than or equal to 0.25
Fuel Type                  : Fuel containing solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 1, by weight (2)
(lb SO2/MMBtu)             : Less than or equal to 1.1
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2a, 2b1, 2c, 3a, 3e, 4g, 5b
1e.   Heat Input Determination => other  [The actual firing rate of the fuel burning equipment.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.  Test Methods             => fuel testing: ASTM  [D-2234 for sampling, D-2013 for sample preparation,
                                  D-3176 or D-3180 for the analysis of liquids, and D-129 or D-1552 for the
                                  analysis of solids.]
2c.   Test Methods             => other testing  [Fuel analysis or stack sampling, or both, may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [When it is determined to be technically feasible
                                  by the Commissioner.]
3e.   Monitoring Requirements  => other  [Fuel analysis or stack sampling, or both, may be required.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [22a-174-4(c); Records and reports may be required by the
                                  Commissioner concerning air pollutants, fuels, and operational information,
                                  and shall be recorded, compiled, and submitted on forms furnished or
                                  prescribed by the Commissioner.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   The "Code of Federal Regulations" refers to Regulation 19-508-19, Control of Sulfur Compound Emissions.
(2)   A variance may be allowed during a fuel shortage emergency provided that the emissions do not exceed 1.1
      lbs SO2/MMBtu heat input.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                       : CONNECTICUT
Region                      : 1
State Regulation Citation   : Title 22a, Chapter 174, sections 4, 5, and 19 (1)
------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Fuel burning equipment used primarily for educational or historical demonstrations
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Coal
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than 1.5, by weight, or (2)
(lb SO2/MMBtu)              : Less than or equal to 1.1
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2b1, 2c, 3a, 3e, 4g, 5b
1e.   Heat Input Determination => other  [The actual firing rate of the fuel burning equipment.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.  Test Methods             => fuel testing: ASTM  [D-2234 for sampling, D-2013 for sample preparation,
                                  D-3176 or D-3180 for the analysis of liquids, and D-129 or D-1552 for the
                                  analysis of solids.]
2c.   Test Methods             => other testing  [Fuel analysis or stack sampling, or both, may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [When it is determined to be technically feasible
                                  by the Commissioner.]
3e.   Monitoring Requirements  => other  [Fuel analysis or stack sampling, or both, may be required.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [22a-174-4(c); Records and reports may be required by the
                                  Commissioner concerning air pollutants, fuels, and operational information,
                                  and shall be recorded, compiled, and submitted on forms furnished or
                                  prescribed by the Commissioner.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The "Code of Federal Regulations" refers to Regulation 19-508-19, Control of Sulfur Compound Emissions.
(2)   Requires Commissioner approval if the sulfur content is greater than 1%, by weight.
------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : MAINE
Region : 1
State Regulation Citation : Chapter 106

Applicable Area : Statewide
Applicable Time Frame : Global
Facility Type : Fuel burning sources with flue gas desulfurization or other sulfur removal processes.
Facility Size (MMBtu/hr) : All
Fuel Type : Liquid fossil fuel

Emissions Limits:
(% S) : Less than or equal to 1.0, by weight, or
(lb SO2/MMBtu) : Less than or equal to 2.4

Compliance Procedures :: 1a, 2b1, 2b4, 3a, 3c, 3d, 4d or 4g, 5b
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2b1. Test Methods => fuel testing: ASTM [D-129, or D-1552, or equivalent procedures approved by the Commissioner.]
2b4. Test Methods => fuel testing: other [EPA Method 19; sample collection and preparation, percent sulfur and moisture analysis, and gross calorific value determination.]
3a. Monitoring Requirements => continuous SO2 monitoring [Required for blended fuel use.]
3c. Monitoring Requirements => sulfur content of fuel
3d. Monitoring Requirements => quantity of fuel
4d. Averaging Time => 24 hours
4g. Averaging Time => other [Calender quarter.] (1)
5b. Reporting => state regulation [106.3A; A quarterly report itemizing the quantity, sulfur, ash, and heat content for each fuel shipment.]

Footnotes:
(1) The calendar quarters are composed by months as follows: (1) January, February, March; (2) April, May, June; (3) July, August, September; (4) October, November, December.

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : MAINE
Region                     : 1
State Regulation Citation : Chapter 106
------------------------------------------------------------------------------------------------
Applicable Area            : Metropolitan Portland outside of the Portland Peninsula, Central Maine, Downeast,
                             Aroostook county, and Northwest Maine
Applicable Time Frame      : Global
Facility Type              : Fuel burning sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid fossil fuel
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 2.5, by weight
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2b1, 3a, 3c, 3d, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2b1.   Test Methods             => fuel testing: ASTM  [D-129, or D-1552, or equivalent procedures approved by
                                   the Commissioner.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for blended fuel use.]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [106.3A;  A quarterly report itemizing the quantity,
                                   sulfur, ash, and heat content for each fuel shipment.]
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : MAINE
Region                     : 1
State Regulation Citation  : Chapter 106
----------------------------------------------------------------------------------------------
Applicable Area            : Portland Peninsula
Applicable Time Frame      : Global
Facility Type              : Fuel burning sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid fossil fuel
----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 1.0, by weight.
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2b1, 3a, 3c, 3d, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b1.  Test Methods             => fuel testing: ASTM  [D-129, or D-1552, or equivalent procedures approved by
                                  the Commissioner.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for blended fuel use.]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [106.3A;  A quarterly report itemizing the quantity,
                                  sulfur, ash, and heat content for each fuel shipment.]
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : MAINE
Region                     : 1
State Regulation Citation  : Chapter 106
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning sources with flue gas desulfurization or other sulfur removal
                             processes
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid fossil fuel
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.48, calendar quarter average, or
(lb SO2/MMBtu)             : Less than or equal to 2.4, total in 24 hour period
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2b1, 2b4, 3a, 3c, 3d, 4d or 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b1.  Test Methods             => fuel testing: ASTM  [D-2234, D-2013, D-3177, D-3173, D-3176.]
2b4.  Test Methods             => fuel testing: other  [EPA Method 19; sample collection and preparation,
                                  percent sulfur and moisture analysis, and gross calorific value
                                  determination.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for blended fuel use.]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
4d.   Averaging Time           => 24 hours
4g.   Averaging Time           => other  [Calendar quarter] (1)
5b.   Reporting                => state regulation  [106.3A; A quarterly report itemizing the quantity,
                                  sulfur, ash, and heat content for each fuel shipment.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The calendar quarters are composed by months as follows: (1) January, February, March; (2) April, May,
      June;  (3) July, August, September; (4) October, November, December.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                       : MAINE
Region                      : 1
State Regulation Citation : Chapter 106
-----------------------------------------------------------------------------------------------------
Applicable Area             : Central Maine, Downeast, Aroostook county, Northwest Maine, and Metropolitan
                              Portland outside the Portland Peninsula region.
Applicable Time Frame       : Global
Facility Type               : Fuel burning sources
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Solid fossil fuel
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)                : Less than or equal to 1.2
-----------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2b1, 2b4, 3a, 3c, 3d, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2b1.   Test Methods             => fuel testing: ASTM  [D-2234, D-2013, D-3177, D-3173, D-3176]
2b4.   Test Methods             => fuel testing: other  [EPA Method 19; sample collection and preparation,
                                   percent sulfur and moisture analysis, and gross calorific value
                                   determination.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for blended fuel use.]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
4g.    Averaging Time           => other  [Calendar quarter] (1)
5b.    Reporting                => state regulation  [106.3A; A quarterly report itemizing the quantity,
                                   sulfur, ash, and heat content for each fuel shipment.]
-----------------------------------------------------------------------------------------------------
Footnotes:
(1)    The calendar quarters are composed by months as follows: (1) January, February, March; (2) April, May,
       June;  (3) July, August, September; (4) October, November, December.
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : MAINE
Region                     : 1
State Regulation Citation  : Chapter 106
-----------------------------------------------------------------------------------------
Applicable Area            : Portland Peninsula
Applicable Time Frame      : Global
Facility Type              : Fuel burning sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid fossil fuel
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.48
-----------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2b1, 2b4, 3a, 3c, 3d, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b1.  Test Methods             => fuel testing: ASTM  [D-2234, D-2013, D-3177, D-3173, D-3176]
2b4.  Test Methods             => fuel testing: other  [EPA Method 19; sample collection and preparation,
                                  percent sulfur and moisture analysis, and gross calorific value
                                  determination.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for blended fuel use.]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
4g.   Averaging Time           => other  [Calendar quarter.] (1)
5b.   Reporting                => state regulation  [106.3A; A quarterly report itemizing the quantity,
                                  sulfur, ash, and heat content for each fuel shipment.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   The calendar quarters are composed by months as follows: (1) January, February, March; (2) April, May,
      June;  (3) July, August, September; (4) October, November, December.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310 CMR, 7.05 and 7.12
---------------------------------------------------------------------------------------------
Applicable Area            : Metropolitan Boston APCD: Arlington, Belmont,  Boston, Brookline, Cambridge,
                             Chelsea, Everett, Malden, Medford, Newton, Somerville, Waltham, and Watertown
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities excluding electric generating facilities
                             greater than or equal to 2.5 billion Btu/hr
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuel
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.28 (1)
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.  An interim
      sulfur-in-fuel limitation of 0.55 lb S/MMBtu heat release potential shall be allowed for fossil fuel
      utilization facilities with an energy input capacity less than 250 MMBtu/hr pending conversion to an
      alternate fuel or implementation of permanent energy conversion measures.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------------
State                       : MASSACHUSETTS
Region                      : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
---------------------------------------------------------------------------------------------------
Applicable Area             : Berkshire Air Pollution Control District
Applicable Time Frame       : Global
Facility Type               : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All fossil fuels excluding distillate fuel oil (No. 2)
---------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)                : Less than or equal to 1.21 (1)
---------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
---------------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.
---------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
------------------------------------------------------------------------------------------
Applicable Area            : Central Massachusetts APCD excluding Worcester; Metropolitan Boston APCD excluding
                             Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea, Everett, Malden,
                             Medford, Newton, Somerville, Waltham, and Watertown; Pioneer Valley APCD;
                             Southeastern Massachusetts APCD.
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : Less than 100
Fuel Type                  : All fossil fuel excluding distillate fuel oil (No. 2)
------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.55 (1)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2c.    Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                   approved by the Department.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
3e.    Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                   content, viscosity, and ash content of the fuel for each facility.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                   amount of emissions, and all information necessary to determine this shall
                                   be submitted yearly for major facilities and every three years for non-major
                                   facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
------------------------------------------------------------------------------------------
Footnotes:
(1)    The Deaprtment may allow fuel with a higher sulfur content to be used provided that the emissions do not
       exceed the standard and that the conditions for approval have been agreed to in writing.  An interim
       sulfur-in-fuel limit of 1.21 lbs S/MMBtu heat release potential shall be allowed for fossil fuel
       utilization facilites with an energgy input capacity less than 250 MMBtu/hr pending conversion to an
       alternate fuel or implementation of permanent energy conservation measures.
------------------------------------------------------------------------------------------
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SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
---------------------------------------------------------------------------------------------
Applicable Area            : Central Massachusetts APCD excluding Worcester; Metropolitan Boston APCD excluding
                             Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea, Everett, Malden,
                             Medford, Newton, Somerville, Waltham, and Watertown; Pioneer Valley APCD;
                             Southeastern Massachusetts APCD.
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : Greater than or equal to 100
Fuel Type                  : All fossil fuel excluding distillate fuel oil.
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.21 (1)
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.  Application
      for and approval by the Department must be made, and a reserve of low sulfur fuel must be on hand.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : MASSACHUSETTS
Region                      : 1
State Regulation Citation   : Title 310, CMR 7.05 and 7.12
-----------------------------------------------------------------------------------------------
Applicable Area             : Merrimack Valley APCD excluding Lawrence, Andover, Methuen, and North Andover
Applicable Time Frame       : Global
Facility Type               : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All fossil fuels excluding distillate fuel oil
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)                : Less than or equal to 1.21
-----------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2b4, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2b4.  Test Methods             => fuel testing: other  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12; Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
-----------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
-----------------------------------------------------------------------------------------------
Applicable Area            : Berkshire APCD; Central Massachusetts APCD; Merrimack Valley APCD; Metropolitan
                             Boston APCD excluding Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea,
                             Everett, Malden, Medford, Newton, Somerville, Waltham, and Watertown; Pioneer
                             Valley APCD; Southeastern Massachusetts APCD.
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Distillate fuel oil (No. 2)
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.17 (1)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.
-----------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation  : Title 310, CMR 7.05 and 7.12
------------------------------------------------------------------------------------------------
Applicable Area            : Central Massachusetts APCD: Worcester, Lawrence; Merrimack Valley APCD: Andover,
                             Methuen, and North Andover
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : Greater than 300
Fuel Type                  : Residual fuel oil (No. 4, 5, or 6)
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.55 (1)
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2c.    Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                   approved by the Department.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
3e.    Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                   content, viscosity, and ash content of the fuel for each facility.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                   amount of emissions, and all information necessary to determine this shall
                                   be submitted yearly for major facilities and every three years for non-major
                                   facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.
------------------------------------------------------------------------------------------------
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SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
--------------------------------------------------------------------------------
Applicable Area            : Statewide excluding Franklin and Hampshire counties.
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : Less than or equal to 3.0
Fuel Type                  : Any residual fuel oil (No. 4, 5, or 6)
--------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Not allowed
(lb S/MMBtu)               : Not allowed
(ppm SO2)                  : Not allowed
--------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 60, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12;  Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this, shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
--------------------------------------------------------------------------------
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SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
--------------------------------------------------------------------------------------------------
Applicable Area            : Franklin and Hampshire counties
Applicable Time Frame      : Global
Facility Type              : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)   : Less than or equal to 100
Fuel Type                  : Any residual fuel oil (No. 4, 5, or 6)
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.21 (1)
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2b4, 3b, 3c, 3d, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [7.12; Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the conditions for
      approval have been agreed to in writing.  Application for and approval by the Department must be made,
      and a reserve of low sulfur fuel must be on hand.
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------
State                     : MASSACHUSETTS
Region                    : 1
State Regulation Citation : Title 310, CMR 7.05 and 7.12
-----------------------------------------------------------------------------------------------------------
Applicable Area           : Merrimack Valley APCD: Lawrence, Andover, Methuen, and North Andover
Applicable Time Frame     : Global
Facility Type             : Fossil fuel utilization facilities
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Coal
-----------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)              : Less than or equal to 0.55 (1)
-----------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2b4, 3a, 3b, 3c, 3d, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [All analysis shall be performed and reported as
                                  approved by the Department.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [7.12; Facility registration to include the nature and
                                  amount of emissions, and all informatin necessary to determine this shall be
                                  submitted yearly for major facilities and every three years for non-major
                                  facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
-----------------------------------------------------------------------------------------------------------
Footnotes:
(1)   The Department may allow fuel with a higher sulfur content to be used provided that the emissions do not
      exceed the standard and that the conditions for approval have been agreed to in writing.  An interim
      sulfur-in-fuel utilization limit of 1.21 lbs S/MMBtu heat release potential shall be allowed for
      facilities with an energy input capacity less than 250 MMBtu/hr pending conversion to an alternate fuel
      or implementation of permanent energy conservation measures.
-----------------------------------------------------------------------------------------------------------
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SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : MASSACHUSETTS
Region                     : 1
State Regulation Citation  : Title 310, CMR 7.05 and 7.12
-------------------------------------------------------------------------------------------------
Applicable Area            : Metropolitan Boston APCD: Arlington, Belmont, Boston, Brookline, Cambridge,
                             Chelsea, Everett, Malden, Medford, Newton, Somerville, Waltham, and Watertown
Applicable Time Frame      : Global
Facility Type              : Electric generating facilities
Facility Size (MMBtu/hr)   : Greater than or equal to 2500
Fuel Type                  : Any fossil fuel
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.55 (1)
-------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2b4, 3a, 3b, 3c, 3d, 3e, 4g, 5b, 5c
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [All fuel analysis shall be performed and reported as
                                   approved by the Department.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51, Appendix P]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
3e.    Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                   content, viscosity, and ash content of the fuel for each facility.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [7.12; Facility registration to include the nature and
                                   amount of emissions, and all information necessary to determine this shall
                                   be submitted yearly for major facilities and every three years for non-major
                                   facilities that have a rated input capacity in excess of 3 MMBtu/hr.]
5c.    Reporting                => specified in 40 CFR Part 51  [Appendix P]
-------------------------------------------------------------------------------------------------
Footnotes:
(1)    The Department may allow fuel with a higher sulfur content to be used provided that the conditions for
       approval have been agreed to in writing.  Application for and approval by the Department must be made,
       and a reserve  of low sulfur fuel must be on hand.
-------------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : MASSACHUSETTS
Region                      : 1
State Regulation Citation   : Title 310, CMR 7.05 and 7.12
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Hand-fired fuel burning utilization facilites
Facility Size (MMBtu/hr)    : Less than or equal to 0.15 MMBtu/hr.
Fuel Type                   : Solid fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Not allowed
(lb S/MMBtu)                : Not allowed
(ppm SO2)                   : Not allowed
------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2b4, 3b, 3c, 3d, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [All fuel analysis shall be performed and reported as
                                  approved by the Department.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [The fuel supplier must record the fuel quantity, BTU value, sulfur
                                  content, viscosity, and ash content of the fuel for each facility.]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [7.12; Facility registration to include the nature and
                                  amount of emissions, and all information necessary to determine this shall
                                  be submitted yearly for major faciliteies and every three years for
                                  non-major facilites that have a rated input capacity in excess of 3
                                  MMBtu/hr.]
------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : NEW HAMPSHIRE
Region                     : 1
State Regulation Citation  : Chapter 400
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Combustion sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : No. 2 fuel oil
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 0.40, by weight
-----------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not applicable]
2b4.  Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                  shall be carried out in accordance with the most recent ASTM methods, or
                                  equivalent methods acceptable to the agency.]
2b5.  Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                  from the fuel vendor.]
3e.   Monitoring Requirements  => other  [The fuel vendor required to test the viscosity, Btu, and sulfur
                                  content of the fuel.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                  report of the laboratory analysis for each fuel consignment.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                       : NEW HAMPSHIRE
Region                      : 1
State Regulation Citation : Chapter 400
----------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Combustion sources
Facility Size (MMBtu/hr)    : All
Fuel Type                   : No. 4 fuel oil
----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than or equal to 1.0, by weight
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.    Heat Input Determination => other  [Not applicable]
2b4.   Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                   shall be carried out in accordance with the most recent ASTM methods, or
                                   equivalent methods acceptable to the agency.]
2b5.   Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                   from the fuel vendor.]
3e.    Monitoring Requirements  => other  [The fuel vendor required to test the viscosity, Btu, and sulfur
                                   content of the fuel.]
4g.    Averaging Time           => other  [Not specified.]
5e.    Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                   report of the laboratory analysis for each fuel consignment.]
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW HAMPSHIRE
Region                     : 1
State Regulation Citation  : Chapter 400
------------------------------------------------------------------------------------------
Applicable Area            : Statewide excluding Androscoggin Valley AQCR
Applicable Time Frame      : Global
Facility Type              : Combustion sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : No. 5 and no. 6 fuel oil, and crude oil (distillate oil)
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 2.0, by weight
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not applicable]
2b4.  Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                  shall be carried out in accordance with the most recent ASTM methods, or
                                  equivalent methods acceptable to the agency.]
2b5.  Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                  from the fuel vendor.]
3e.   Monitoring Requirements  => other  [The fuel vendor is required to test the viscosity, Btu, and sulfur
                                  content of the fuel.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                  report of the laboratory analysis for each fuel consignment.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : NEW HAMPSHIRE
Region                      : 1
State Regulation Citation : Chapter 400
--------------------------------------------------------------------------------------------
Applicable Area             : Androscoggin Valley AQCR
Applicable Time Frame       : Global
Facility Type               : Combustion sources
Facility Size (MMBtu/hr)    : All
Fuel Type                   : No. 5 and no. 6 fuel oil, and crude oil (distillate oil)
--------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than or equal to 2.2, by weight
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not applicable]
2b4.  Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                  shall be carried out in accordance with the most recent ASTM methods, or
                                  equivalent methods acceptable to the agency.]
2b5.  Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                  from the fuel vendor.]
3e.   Monitoring Requirements  => other  [The fuel vendor is required to test viscosity, Btu, and sulfur
                                  content of the fuel.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                  report of the laboratory analysis for each fuel consignment.]
--------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : NEW HAMPSHIRE
Region                      : 1
State Regulation Citation : Chapter 400
-----------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Combustion sources
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Gaseous fossil fuel (natural and manufactured)
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                   : Less than or equal to 5 gr/100 ft3, calculated as H2S at standard conditions
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not applicable.]
2b4.  Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                  shall be carried out in accordance with the most recent ASTM methods, or
                                  equivalent methods acceptable to the agency.]
2b5.  Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                  from the vendor.]
3e.   Monitoring Requirements  => other  [The fuel vendor required to test the viscosity, Btu, and sulfur
                                  content of the fuel.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                  report of the laboratory analysis for each fuel consignment.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW HAMPSHIRE
Region                     : 1
State Regulation Citation  : Chapter 400
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   04/15/70
Facility Type              : Combustion sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid fossil fuel (coal)
------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 2.8, gross heat content, and less than or equal to 2.0,
                             gross heat content for a trimonthly period.
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not applicable.]
2b4.  Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                  shall be carried out in accordance with the most recent ASTM methods, or
                                  equivalent methods acceptable to the agency.]
2b5.  Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                  from the fuel vendor.]
3e.   Monitoring Requirements  => other  [The fuel vendor required to test the viscosity, Btu, and sulfur
                                  content of the fuel.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                  report of the laboratory analysis for each fuel consignment.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : NEW HAMPSHIRE
Region                     : 1
State Regulation Citation : Chapter 400
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    04/15/70
Facility Type              : Combustion sources
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid fossil fuel (coal)
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.5, gross heat content.
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2b4, 2b5, 3e, 4g, 5e
1e.    Heat Input Determination => other  [Not applicable.]
2b4.   Test Methods             => fuel testing: other  [Sampling, compositing, and analysis of fuel samples
                                   shall be carried out in accordance with the most recent ASTM methods, or
                                   equivalent methods acceptable to the agency.]
2b5.   Test Methods             => fuel testing: other  [Viscosity, sulfur content, and Btu content is required
                                   from the fuel vendor.]
3e.    Monitoring Requirements  => other  [The fuel vendor required to test the viscosity, Btu, and sulfur
                                   content of the fuel.]
4g.    Averaging Time           => other  [Not specified.]
5e.    Reporting                => other  [Not specified for the facility.  The fuel vendor shall provide a
                                   report of the laboratory analysis for each fuel consignment.]
-----------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation  : Title 23, Regulations 8 and 14
-----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices with stack cleaning devices
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuel except fuel oil
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Greater than 0.55, heat release potential (1)
(lb SO2/MMBtu)             : Less than or equal to 1.1, actual heat input
-----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2a, 2b4, 3c, 4g, 5b
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                   generating units and Method 20 for stationary gas turbines.]
2b4.   Test Methods             => fuel testing: other  [Fossil fuel must be sampled and analyzed by ASTM
                                   methods which have prior approval, or are required by the Director.]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                   fuel usage, source emissions, generator capacities, types of equipment
                                   producing air contaminates and other data that may be necessary to determine
                                   if the source is in compliance.]
-----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Requires Director approval.
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : RHODE ISLAND
Region                    : 1
State Regulation Citation : Title 23, Regulations 8 and 14
------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : Fuel burning devices with stack cleaning devices
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Fuel oil
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Greater than 1.0 (1)
(lb SO2/MMBtu)            : Less than or equal to 1.1, actual heat input
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1b, 2a, 2b4, 3c, 4g, 5b
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                  generating units and Method 20 for stationary gas turbines.]
2b4.  Test Methods             => fuel testing: other  [Fossil fuel must be sampled and analyzed by ASTM
                                  methods which have prior approval, or are required by the Director.]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                  fuel usage, source emissions, generator capacities, types of equipment
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation  : Title 23, Regulations 8 and 14
--------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices
Facility Size (MMBtu/hr)   : Less than 250
Fuel Type                  : Coal
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.55, heat release potential
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b4, 3e, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                   generating units and Method 20 for stationary gas turbines.]
2b4.   Test Methods             => fuel testing: other  [Fossil fuels must be sampled and analyzed according to
                                   ASTM methods which have prior approval or are required by the Director.]
3e.    Monitoring Requirements  => other  [Requirements specified in the "Rhode Island Guideline for Air
                                   Quality Monitoring"]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                   fuel usage, source emissions, generator capacities, types of equipment
                                   producing air contaminates and other data that may be necessary to determine
                                   if the source is in compliance.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation  : Title 23, Regulations 8 and 14
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Coal
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Greater than or equal to 1.0, by weight.
(lb S/MMBtu)               : Less than or equal to 1.21, heat release potential, (thirty day period), or Less
                             than or equal to 2.31, heat release potential, (twenty-four hour period).
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a, 2b4, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                  generating units and Method 20 for stationary gas turbines.]
2b4.  Test Methods             => fuel testing: other  [Fossil fuels must be sampled and analyzed according to
                                  ASTM methods which have prior approval or are required by the Director.]
3e.   Monitoring Requirements  => other  [Requirements specified in the "Rhode Island Guideline for Air
                                  Quality Monitoring".]
4g.   Averaging Time           => other  [Thirty day or twenty four hour period.]
5b.   Reporting                => state regulation  [No. 14; A yearly report of data on operational processes,
                                  fuel usage, source emissions, generator capacities, types of equipment
                                  producing air contaminates and other data that may be necessary to determine
                                  if the source is in compliance.  Quarterly reports stating the quantity of
                                  high sulfur fuel used, fuel cost, cost of equivalent quantity of low sulfur
                                  fuel, and the hours of operation for each unit.]
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------
State                       : RHODE ISLAND
Region                      : 1
State Regulation Citation : Title 23, Regulations 14 and 20
--------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Fuel burning equipment
Facility Size (MMBtu/hr)  : Greater then 1.0
Fuel Type                   : Alternate fuel
--------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than 1.0, by weight.
--------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b1, 2b4, 2c, 3c, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2b1.  Test Methods             => fuel testing: ASTM  [D-1552]
2b4.  Test Methods             => fuel testing: other  [Heavy metals, flash point, viscosity, percent solids,
                                  H2O, and ash, and any hazardous components suspected of being present in the
                                  material.]
2c.   Test Methods             => other testing  [Sampling and analysis procedures according to Title 23,
                                  Chapter 20, Appendix B, of the state regulations.]
3c.   Monitoring Requirements  => sulfur content of fuel
3e.   Monitoring Requirements  => other  [Compliance with all applicable rules and regulations of the Division
                                  of AIr and Hazardous Materials.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [No.20.9; Records maintained for three years to include
                                  the feed rates of fuel, fuel vendor and sampling data, and fuel delivery
                                  information.]
--------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation : Title 23, Regulation 8
----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices without stack cleaning devices or emission bubbles.
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels except fuel oil and coal
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 0.55, heat release potential
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2b4, 3c, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                  generating units and Method 20 for stationary gas turbines.]
2b4.  Test Methods             => fuel testing: other  [Fossil fuel must be sampled and analyzed according to
                                  ASTM methods which have prior approval or are required by the Director.]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                  fuel usage, source emissions, generator capacities, types of equipment
                                  producing air contaminates, and other data that may be necessary to
                                  determine if the source is in compliance.]
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation : Title 23, Regulation 8
-----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices without stack cleaning devices or emission bubbles.
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Fuel oil
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 1.0
-----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2b4, 3c, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                   generating units, and Method 20 for stationary gas turbines]
2b4.   Test Methods             => fuel testing: other  [Fossil fuel must be sampled and analyzed according to
                                   ASTM methods which have prior approval or are required by the Director.]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                   fuel usage, source emissions, generator capacities, types of equipment
                                   producing air contaminates and other data that may be necessary to determine
                                   if the source is in compliance.]
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation : Title 23, Regulations 8 and 14
--------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices with emission bubbles
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuel excluding fuel oil
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.21, heat release potential, and (1)
(lb SO2/MMBtu)             : Less than or equal to 1.1, actual heat input
--------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1b, 2a, 2b4, 2c, 3b, 3c, 3d, 3e, 4g, 5b
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods            => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                 generating units and Method 20 for stationary gas turbines.]
2b4.  Test Methods            => fuel testing: other  [Fossil fuel must be sampled and analyzed by ASTM
                                 methods which have prior approval, or are required by the Director.]
2c.   Test Methods            => other testing  [Type of fuel, sulfur content, maximum rated gross heat input
                                 for each unit, stack height, stack exit velocity and temperature,
                                 monitoring, and modeling.]
3b.   Monitoring Requirements => ambient monitoring or diffusion estimate  [Aerodynamic downwash modeling.]
3c.   Monitoring Requirements => sulfur content of fuel
3d.   Monitoring Requirements => quantity of fuel
3e.   Monitoring Requirements => other  [Type of fuel, operating hours, stack gas exit temperature and
                                 velocity.]
4g.   Averaging Time          => other  [Not specified.]
5b.   Reporting               => state regulation  [No.14; A yearly report of data on operational processes,
                                 fuel usage, source emissions, generator capacities, types of equipment
                                 producing air contaminates and other data that may be necessary to determine
                                 if the source is in compliance.  A quarterly report stating the quantity of
                                 high sulfur fuel used, fuel cost, cost of equivalent quantity of low sulfur
                                 fuel, and the hours of operation for each unit.]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   Requires Director approval.
--------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : RHODE ISLAND
Region                     : 1
State Regulation Citation : Title 23, Regulations 8 and 14
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning devices with emission bubbles
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Fuel oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.21, heat release potential. (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2a, 2b4, 2c, 3c, 3d, 4g, 5b
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 for steam
                                   generating units and Method 20 for stationary gas turbines]
2b4.   Test Methods             => fuel testing: other  [Fossil fuel must be sampled and analyzed according to
                                   ASTM methods which have prior approval or are required by the Director.]
2c.    Test Methods             => other testing  [Stack testing, or with the approval of the Director, fuel
                                   testing. Modeling requirements as specified in the "Rhode Island Guideline
                                   for Air Quality Modeling".]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
4g.    Averaging Time           => other  [Thirty month limit.]
5b.    Reporting                => state regulation  [No.14; A yearly report of data on operational processes,
                                   fuel usage, source emissions, generator capacities, types of equipment
                                   producing air contaminates and other data that may be necessary to determine
                                   if the source is in compliance.  A quarterly report stating the quantity of
                                   high sulfur fuel used, fuel cost, cost of equivalent quantity of low sulfur
                                   fuel, and the hours of operation of each unit.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Requires Director approval.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                     : VERMONT
Region                    : 1
State Regulation Citation : Chapter 5, subchapter II, sections 221, 252, 404, and 405
-------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : Electrical power generation facilities and fuel burning installations excluding
                            gas turbine generators
Facility Size (MMBtu/hr)  : Greater than or equal to 250
Fuel Type                 : Liquid fossil fuel
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Less than or equal to 2.0 (1)
(lb SO2/MMBtu)            : Less than or equal to 0.8
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 3b, 3e, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required.
                                   Emissions testing is required to demonstrate the reduction of sulfur levels
                                   to be no greater than emissions from burning two percent sulfur fuel.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.    Monitoring Requirements  => other  [Monitoring may be required.  APCO may require stack tests as
                                   specified in 40 CFR part 60.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [5-402;  Reports shall contain information concerning
                                   fuels used, nature, amount, and time periods or durations of emissions and
                                   other information relevant to the air pollution potential of the source.
                                   These reports shall also include the results of source tests that may be
                                   required.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)    When low sulfur fuel is not available, the Secretary may permit the use of fuel containing up to 2.2%
       sulfur.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : VERMONT
Region                     : 1
State Regulation Citation : Chapter 5, subchapter II, sections 221, 252, 404, and 405
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Electrical power generation facilities and fuel burning installations excluding
                             gas turbine generators
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Solid fossil fuel
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 2.0 (1)
(lb SO2/MMBtu)             : Less than or equal to 1.2
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b4, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required.
                                  Emissions testing is required to demonstrate reduction of sulfur levels to
                                  be no greater than emissions from burning two percent sulfur fuel.]
2b4.  Test Methods             => fuel testing: other  [May be required.]
3e.   Monitoring Requirements  => other  [Monitoring may be required.  APCO may require stack tests as
                                  specified in 40 CFR part 60.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [5-402;  Reports shall contain information concerning
                                  fuels used, nature, amount, and time periods or durations of emissions, and
                                  other information relevant to the air pollution potential of the source.
                                  These reports shall also include the results of source tests that may be
                                  required.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   When low sulfur fuel is not available, the Secretary may permit the use of fuel containing up to 2.2%
      sulfur.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : VERMONT
Region                     : 1
State Regulation Citation  : Chapter 5, subchapter II, sections 221, 261, 404, and 405
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Electrical power generation facilities and fuel burning equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Waste oil
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 2.0 (1)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2a, 2b4, 2c, 3d, 3e, 4g, 5b
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required.
                                  Other source testing may be required in accordance with methods acceptable
                                  to the APCO.]
2b4.  Test Methods             => fuel testing: other  [PCB's, total organic halogens, total inorganic
                                  chloride, lead, heat of combustion, and flash point.]
2c.   Test Methods             => other testing  [Combustion efficiency of equipment.]
3d.   Monitoring Requirements  => quantity of fuel  [May be required.]
3e.   Monitoring Requirements  => other  [Compliance testing according to section 5-261 (Control of Hazardous
                                  Air Contaminates).  A permit to burn is required for sources greater than
                                  1,000,000 MMBtu/hr.  For sources greater than 10,000,000 MMBtu/hr written
                                  notice must be made to the APCO prior to the date of the initial burn.]
4g.   Averaging Time           => other  [Not specifed.]
5b.   Reporting                => state regulation  [5-402;  Reports shall contain information concerning
                                  fuels used, nature, amount, and time periods or durations of emissions and
                                  other information relevant to the air pollution potential of the source.
                                  These reports shall also include the results of source tests that may be
                                  required.]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   When low sulfur fuel is not available the Secretary may permit the use of fuel containing 2.2% sulfur.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
------------------------------------------------------------------------------------------
Applicable Area            : Zone 1 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (<= No. 2 grade)
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.3
(lb SO2/MMBtu)             : 0.32
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Atlantic, Cape May, Cumberland, and Ocean Counties
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation  : Title 7, Chapter 27, Subchapter 9.2
--------------------------------------------------------------------------------
Applicable Area            : Zone 1 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (>= No. 4, No. 5, No. 6 grade)
--------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 2.0
(lb SO2/MMBtu)             : 2.10
--------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
--------------------------------------------------------------------------------
Footnotes:
(1)   Atlantic, Cape May, Cumberland, and Ocean Counties
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
-------------------------------------------------------------------------------------------
Applicable Area            : Zones 2 & 5 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (<= No. 2 grade)
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.3
(lb SO2/MMBtu)             : 0.32
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Hunterdon, Sussex, Warren, and Salem Counties
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : NEW JERSEY
Region                      : 2
State Regulation Citation   : Title 7, Chapter 27, Subchapter 9.2
------------------------------------------------------------------------------------------
Applicable Area             : Zones 2 & 5 (1)
Applicable Time Frame       : Global
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : all
Fuel Type                   : fuel oil (No. 4 grade)
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.7
(lb SO2/MMBtu)              : 0.74
------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Hunterdon, Sussex, Warren, and Salem Counties
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
--------------------------------------------------------------------------------
Applicable Area            : Zones 2 & 5 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (>= No. 5, No. 6 grade)
--------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0
(lb SO2/MMBtu)             : 1.05
--------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
--------------------------------------------------------------------------------
Footnotes:
(1)   Hunterdon, Sussex, Warren, and Salem Counties
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
-----------------------------------------------------------------------------------------------------------
Applicable Area            : Zone 3 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (<= No. 2 grade)
-----------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.2
(lb SO2/MMBtu)             : 0.21
-----------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [Specified by the Department]
3e.    Monitoring Requirements  => other  [Specified by the Department]
4g.    Averaging Time           => other  [Specified by the Department]
5e.    Reporting                => other  [Specified by the Department]
-----------------------------------------------------------------------------------------------------------
Footnotes:
(1)    Burlington, Camden, Gloucester, and Mercer Counties (except those municipalities included in Zone 6).
-----------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation  : Title 7, Chapter 27, Subchapter 9.2
------------------------------------------------------------------------------------------
Applicable Area            : Zone 3 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (No. 4 grade)
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.3
(lb SO2/MMBtu)             : 0.32
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Burlington, Camden, Gloucester, and Mercer Counties (except those municipalities included in Zone 6).
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation  : Title 7, Chapter 27, Subchapter 9.2
--------------------------------------------------------------------------------------------
Applicable Area            : Zone 3 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (>= No. 5, No. 6 grade)
--------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.5
(lb SO2/MMBtu)             : 0.53
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination  => total plant design rated (MMBtu/hr)
2c.   Test Methods              => other testing  [Specified by the Department]
3e.   Monitoring Requirements   => other  [Specified by the Department]
4g.   Averaging Time            => other  [Specified by the Department]
5e.   Reporting                 => other  [Specified by the Department]
--------------------------------------------------------------------------------------------
Footnotes:
(1)   Burlington, Camden, Gloucester, and Mercer Counties (except those municipalities included in Zone 6).
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
------------------------------------------------------------------------------------------
Applicable Area            : Zones 4 & 6 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : fuel oil (<= No. 2 grade)
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.2
(lb SO2/MMBtu)             : 0.21
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union Counties; and in
      Burlington County, the municipalities of Bass River, Shamong, Southampton, Tabernacle, Washington,
      Woodland; and in Camden County, Waterford Township.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                    : NEW JERSEY
Region                   : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 9.2
------------------------------------------------------------------------------------------------
Applicable Area          : Zones 4 & 6 (1)
Applicable Time Frame    : Global
Facility Type            : fuel burning installations
Facility Size (MMBtu/hr) : all
Fuel Type                : fuel oil (>= No. 4, No. 5, No. 6 grade)
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                    : 0.3
(lb SO2/MMBtu)           : 0.32
------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union Counties; and in
      Burlington County, the municipalities of Bass River, Shamong, Southampton, Tabernacle, Washington,
      Woodland; and in Camden County, Waterford Township.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                       : NEW JERSEY
Region                      : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
------------------------------------------------------------------------------------------------
Applicable Area             : Zones 1 & 2 (1)
Applicable Time Frame       : Global
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : all
Fuel Type                   : solid fuels, excluding anthracite coal and coke
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 1.0
(lb SO2/MMBtu)              : 1.5
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [Specified by the Department]
3e.    Monitoring Requirements  => other  [Specified by the Department]
4g.    Averaging Time           => other  [Specified by the Department]
5e.    Reporting                => other  [Specified by the Department]
------------------------------------------------------------------------------------------------
Footnotes:
(1)    Atlantic, Cape May, Cumberland, Ocean, Hunterdon, Sussex, and Warren Counties.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation  : Title 7, Chapter 27, Subchapter 10.2
-------------------------------------------------------------------------------------------
Applicable Area            : Zones 3 & 4 (1)
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : solid fuels, excluding anthracite coal and coke
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.2
(lb SO2/MMBtu)             : 0.3
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Burlington, Camden, Gloucester, and Mercer Counties (except those munipalities included in Zone 6);
      Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union Counties.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                       : NEW JERSEY
Region                      : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
----------------------------------------------------------------------------------------------------
Applicable Area             : Zones 1,2,3, and 4 (1)
Applicable Time Frame       : Global
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : all
Fuel Type                   : anthracite coal and coke
----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.8
(lb SO2/MMBtu)              : 1.2
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)   Includes all Counties except for Salem and in Burlington County, the municipalities of Bass River,
      Shamong, Southampton, Tabernacle, Washington, Woodland, and in Camden County, Waterford Township.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                     : NEW JERSEY
Region                    : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
--------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : expanded or reconstructed resource recovery facilities
Facility Size (MMBtu/hr)  : >1
Fuel Type                 : solid fuels
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 1.2
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 3a, 4a, 5a
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                       : NEW JERSEY
Region                      : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
----------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : expanded or reconstructed fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                   : anthracite coal, exclusively
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.20
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 3a, 4a, 5a
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
----------------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : expanded or reconstructed fuel burning installations
Facility Size (MMBtu/hr)   : >1
Fuel Type                  : anthracite coal and coke
----------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.8
----------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 3a, 4a, 5a
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.    Monitoring Requirements  => continuous SO2 monitoring
4a.    Averaging Time           => specified in 40 CFR Part 60
5a.    Reporting                => specified in 40 CFR Part 60
----------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : expanded or reconstructed fuel burning installations
Facility Size (MMBtu/hr)   : >1
Fuel Type                  : solid fuel, excluding coke and anthracite coal
----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.20
(lb SO2/MMBtu)             : 0.30
----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 3a, 4a, 5a
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------------------
State                     : NEW JERSEY
Region                    : 2
State Regulation Citation : Title 7, Chapter 27, Subchapter 10.2
--------------------------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : expanded or reconstructed fuel burning installations
Facility Size (MMBtu/hr)  : >250
Fuel Type                 : solid fuel
--------------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 0.30
(lb SO2/MMBtu)            : 0.60
--------------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 3a, 4a, 5a
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------------
State                      : NEW JERSEY
Region                     : 2
State Regulation Citation  : Title 7, Chapter 27, Subchapter 10.2
----------------------------------------------------------------------------------------------------------
Applicable Area            : Zones 3 & 4 (1)
Applicable Time Frame      : Before   05/06/68
Facility Type              : expanded or reconstructed fuel burning installations
Facility Size (MMBtu/hr)   : >200 or a group of facilities >450
Fuel Type                  : solid fuels, excluding anthracite coal and coke
----------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0
(lb SO2/MMBtu)             : 1.5
----------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified by the Department]
3e.   Monitoring Requirements  => other  [Specified by the Department]
4g.   Averaging Time           => other  [Specified by the Department]
5e.   Reporting                => other  [Specified by the Department]
----------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Burlington, Camden, Gloucester, and Mercer Counties (except those munipalities included in Zone 6);
      Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union Counties.
----------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : NEW YORK
Region                    : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area           : New York City
Applicable Time Frame     : Global
Facility Type             : fuel burning installation
Facility Size (MMBtu/hr)  : >10
Fuel Type                 : residual oil
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 0.30
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a or 2c, 3a, 3c, 3d, 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring  [See Appendix B, "Performance Specification 2".]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and Sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by methods acceptable to
                                  the commissioner to include ash content, specific gravity, and heating
                                  value.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation : Title 6, Part 225
-----------------------------------------------------------------------------------------
Applicable Area            : New York City
Applicable Time Frame      : Global
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : distillate oil
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.20
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a or 2c, 3a, 3c, 3d, 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring  [See Appendix B, "Performance Specification 2".]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and Sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by methods acceptable to
                                  the commissioner to include specific gravity and heating value.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
-----------------------------------------------------------------------------------------------
Applicable Area            : New York City
Applicable Time Frame      : Global
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : solid fossil fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.20
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a or 2c, 3a, 3c, 3d, 3e, 4a, 5b or 5e
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                   burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.    Monitoring Requirements  => continuous SO2 monitoring  [See Appendix B, "Performance Specification 2".]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel  [Received and Sold]
3e.    Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by methods acceptable to
                                   the commissioner to include ash content and heating value (for coal).]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.    Reporting                => other  [Specified by the Commissioner]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
-----------------------------------------------------------------------------------------------
Applicable Area            : Nassau, Rockland, & Westchester Counties
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : fuel oil (residual and distillate)
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.37
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include specific gravity & heating value and (for
                                  residual oil) ash content.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : NEW YORK
Region                      : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area             : Nassau, Rockland, & Westchester Counties
Applicable Time Frame       : Global
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : >10
Fuel Type                   : solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.20
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : NEW YORK
Region                    : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area           : Erie County, City of Lakawana, and South Buffalo
Applicable Time Frame     : Before   03/15/73
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : >10
Fuel Type                 : fuel oil, both residual and distillate
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 1.1
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include specific gravity & heating value and (for
                                  residual oil) ash content.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation : Title 6, Part 225
-----------------------------------------------------------------------------------------------
Applicable Area            : Erie County, City of Lakawana, and South Buffalo
Applicable Time Frame      : Before   03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)  : >10
Fuel Type                  : solid fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.7 (1.4 average)
-----------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
------------------------------------------------------------------------------------------------
Applicable Area            : Suffolk County, Towns of Babylon, Brookhaven, Huntingdon, Islip, and Smithtown
Applicable Time Frame      : Before   03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : fuel oil, both residual and distillate
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.00
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination  => total plant actual or operating (MMBtu/hr)
2a.   Test Methods              => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods              => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                   burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements   => continuous SO2 monitoring
3c.   Monitoring Requirements   => sulfur content of fuel
3d.   Monitoring Requirements   => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements   => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                   the commissioner to include specific gravity & heating value and (for
                                   residual oil) ash content.]
4a.   Averaging Time            => specified in 40 CFR Part 60
5b.   Reporting                 => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                 => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area            : Suffolk County, Towns of Babylon, Brookhaven, Huntingdon, Islip, and Smithtown
Applicable Time Frame      : Before   03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : solid fossil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.60
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area            : Remainder of State
Applicable Time Frame      : Before   03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : fuel oil
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.50
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                   burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.    Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                   the commissioner to include specific gravity & heating value and (for
                                   residual oil) ash content]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.    Reporting                => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)    For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------
State                     : NEW YORK
Region                    : 2
State Regulation Citation : Title 6, Part 225
-----------------------------------------------------------------------------------------------------------
Applicable Area           : Remainder of State
Applicable Time Frame     : Before   03/15/73
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : >10
Fuel Type                 : solid fuel
-----------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 2.5 (1.9 average) (1.7 annual average)
-----------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
-----------------------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
--------------------------------------------------------------------------------------------------------------
Applicable Area            : Erie County, City of Lakawana & South Buffalo
Applicable Time Frame      : After    03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <=250 but >10
Fuel Type                  : fuel oil, both residual and distillate
--------------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.1
--------------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received or sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner, to include specific gravity & heating value and (for
                                  residual oil) ash content.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
--------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----- ------------------------------------------------------------------------------------
State                     : NEW YORK
Region                    : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area           : Erie & Niagra Counties, City of Lakawana & South Buffalo
Applicable Time Frame     : After    03/15/73
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : <=250 but >10
Fuel Type                 : solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 1.7 (1.4 average)
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received or sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner, to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225
-------------------------------------------------------------------------------------------------
Applicable Area            : Suffolk County, Towns of Babylon, Brookhaven, Huntingdon, Islip, and Smithtown
Applicable Time Frame      : After    03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <=250 but >10
Fuel Type                  : fuel oil, both residual and distillate
-------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.00
-------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include specific gravity & heating value and (for
                                  residual oil) ash content.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
-------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation : Title 6, Part 225
------------------------------------------------------------------------------------------
Applicable Area            : Suffolk County, Towns of Babylon, Brookhaven, Huntingdon, Islip, and Smithtown
Applicable Time Frame      : After    03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <=250 but >10
Fuel Type                  : solid fossil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.60
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received or sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner, to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : NEW YORK
Region                      : 2
State Regulation Citation   : Title 6, Part 225
-----------------------------------------------------------------------------------------------
Applicable Area             : Remainder of State
Applicable Time Frame       : After    03/15/73
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : <=250 but >10
Fuel Type                   : fuel oil
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 1.50
-----------------------------------------------------------------------------------------------
Compliance Procedures            :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received or sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner, to include specific gravity & heating value and (for
                                  residual oil) ash content.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation : Title 6, Part 225
-------------------------------------------------------------------------------
Applicable Area            : Remainder of State
Applicable Time Frame      : After    03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <=250 but >10
Fuel Type                  : solid fuel
-------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 2.5 (1.9 average) (1.7 annual average)
-------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received or sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner, to include ash content & heating value (for coal).]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the Commissioner]
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEW YORK
Region                     : 2
State Regulation Citation  : Title 6, Part 225-1.2
-----------------------------------------------------------------------------------------------
Applicable Area            : all areas except New York City, Nassau, Rockland, or Westchester Counties
Applicable Time Frame      : After    03/15/73
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : fuel oil
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.75
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a, 2c, 3a, 3c, 3d, 3e, 4a, 5b, 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [(daily) rate of fuel burned; (weekly) gross heat content &
                                  ash content of fuel burned.] {1}
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include specific gravity & heating value.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
-----------------------------------------------------------------------------------------------
Footnotes:
{1}   For electricity installations:  average electrical output & hourly generation rate.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : NEW YORK
Region                      : 2
State Regulation Citation : Title 6, Part 225-1.2
------------------------------------------------------------------------------------------
Applicable Area             : all areas except New York City, Nassau, Rockland, or Westchester Counties
Applicable Time Frame       : After    03/15/73
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : >250
Fuel Type                   : coal
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.60
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a or 2c, 3a, 3c, 3d or 3e, 4a, 5b or 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [If total heat input >250 MM Btu/hr:  (daily) rate of fuel
                                  burned; (weekly) gross heat content & ash content of fuel burned.] (1)
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel  [Received and sold]
3e.   Monitoring Requirements  => other  [Sampling, compositing, and analysis of fuel by method acceptable to
                                  the commissioner to include ash content & heating value for coal.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Title 6, Parts 225-1.7(d) & (e) and 225-1.8]
5e.   Reporting                => other  [Specified by the commissioner]
------------------------------------------------------------------------------------------
Footnotes:
(1)   For electricity installations:  average electrical output & hourly generation rate.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : PUERTO RICO
Region                     : 2
State Regulation Citation  : Part I, 106 and Part IV, 410
----------------------------------------------------------------------------------------------
Applicable Area            : All
Applicable Time Frame      : Before   08/17/71
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : <8 (1)
Fuel Type                  : All
----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 2.5 (2)
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2b4, 3c, 3e, 4g, 5b, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [ASTM D-1552; ASTM D-3120; ASTM-270; APT-2546.]
3c.   Monitoring Requirements  => sulfur content of fuel  [daily]
3e.   Monitoring Requirements  => other  [All other information as may be required by the Board.]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [Part IV, 410 (F)]
5e.   Reporting                => other  [Any other information as deemed necessary by the Regional
                                  Administrator [Section 52.2725(2)].]
----------------------------------------------------------------------------------------------
Footnotes:
(1)   Facilities >=8 MMBtu/hr must request a sulfur % assignment from the Board.
(2)   Sulfur content limits are established for every emission unit at each source.  These limits can be
      lower, but not greater than, 2.5 percent sulfur.
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : PUERTO RICO
Region                     : 2
State Regulation Citation  : Part I, 103 & 106 and Part IV, 412
----------------------------------------------------------------------------------------------------
Applicable Area            : All
Applicable Time Frame      : Global
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All
----------------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 1,000
----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 3a, 3b or 3e, 4a, 5a
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.   Monitoring Requirements  => other  [Any monitoring requirements deemed necessary by the Board]
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : DELAWARE
Region                     : 3
State Regulation Citation : Delaware Code, Title 29, Chapter 80
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Distillate
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.3 (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a or 2c, 3a or 3e, 4a or 4g, 5d
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
2c.   Test Methods             => other testing  [Residual and distillate fuels: x-ray absorption and/or the
                                  parr oxygen bomb technique.]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3e.   Monitoring Requirements  => other  [Specified by the Department.]
4a.   Averaging Time           => specified in 40 CFR Part 60
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Unless emission controls are installed or NAAQS is exceeded.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : DELAWARE
Region                     : 3
State Regulation Citation  : Delaware Code, Title 29, Chapter 80
-------------------------------------------------------------------------------------------
Applicable Area            : New Castle County
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0 for solid and residual fuel oils, 0.3 for distillate fuel oils. (1)
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a or 2c, 3a or 3e, 4a or 4g, 5d
1e.   Heat Input Determination  => other  [Not specified]
2a.   Test Methods              => source testing (as specified in 40 CFR Part 60)
2c.   Test Methods              => other testing  [Residual and distillate fuels: x-ray absorption and/or the
                                   parr oxygen bomb technique.]
3a.   Monitoring Requirements   => continuous SO2 monitoring  [For facilities >250 MMBtu/hour or with SO2
                                   control equipment.]
3e.   Monitoring Requirements   => other  [As approved by the Department.]
4a.   Averaging Time            => specified in 40 CFR Part 60
4g.   Averaging Time            => other  [As approved by Department.]
5d.   Reporting                 => specified by the Director
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Unless emission controls are installed.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : DISTRICT OF COLUMBIA
Region                     : 3
State Regulation Citation : District of Columbia Municipal Regulations, Title 20
-------------------------------------------------------------------------------------------
Applicable Area            : DC-wide
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0 (1)
-------------------------------------------------------------------------------------------
Compliance Procedures         :: 1a, 2b4 or 2c, 3a or 3b or 3c, 4a, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [In accordance with 40CFR, 60.45 (f)(5)]
2c.   Test Methods             => other testing  [As specified by the Mayor]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Sources which emit >100 tons/year]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3c.   Monitoring Requirements  => sulfur content of fuel
4a.   Averaging Time           => specified in 40 CFR Part 60
5e.   Reporting                => other  [As specified by the Mayor]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Can be higher for coal if shown that sulfur oxide emissions for the combustion-gas-desulfurization
      system will not increase.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : MARYLAND
Region                     : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)
-------------------------------------------------------------------------------------------------
Applicable Area            : I, II, V, and VI
Applicable Time Frame      : Global
Facility Type              : All fuel burning
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Residual
-------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 2 (2)
-------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2c, 3e, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified in Air Management Administration Technical
                                  Memorandum 83-05, "Stack Test Methods for STationary Sources," June 1983.]
3e.   Monitoring Requirements  => other  [Specified by the Department.]
4g.   Averaging Time           => other  [Specified by the Department.]
5d.   Reporting                => specified by the Director
-------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city;
      Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George
      Counties. Area V: Calvert, Charles, and St. Mary's Counties. Area VI: Caroline, Cecil, Dorchester, Kent,
      Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.
(2)   Unless control equipment is installed.  For Area I, if compliance will cause or exacerbate violation of
      NAAQS, emission standard will be 1.0% sulfur, by weight.
-------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : MARYLAND
Region : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)

Applicable Area : III and IV
Applicable Time Frame : Global
Facility Type : All fuel burning
Facility Size (MMBtu/hr) : All
Fuel Type : Residual

Emissions Limits:
(% S) : 1.0 (2)

Compliance Procedures :: 1a, 2c, 3e, 4g, 5d
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [Specified in Air Management Administration Technical Memorandum 83-05, "Stack Test Methods for Stationary Sources," June 1983.]
3e. Monitoring Requirements => other [Specified by the Department.]
4g. Averaging Time => other [Specified by the Department.]
5d. Reporting => specified by the Director

Footnotes:

(1) Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city; Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George Counties. Area V: Calvert, Charles, and St. Mary's Counties. Area VI: Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.

(2) Unless control equipment is installed.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : MARYLAND
Region                      : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)
-----------------------------------------------------------------------------------------
Applicable Area             : I, II, III, IV, V, and VI
Applicable Time Frame       : Global
Facility Type               : All fuel burning
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Distillate
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.3 (2)
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3e, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [Specified in Air Management Administration Technical
                                   Memorandum 83-05, "Stack Test Methods for Stationary Sources," June 1983.]
3e.    Monitoring Requirements  => other  [Specified by the Department.]
4g.    Averaging Time           => other  [Specified by the Department.]
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city;
       Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George
       Counties. Area V: Calvert, Charles, and St. Mary's Counties. Area VI: Caroline, Cecil, Dorchester, Kent,
       Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.
(2)    Unless control equipment is installed
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MARYLAND
Region                     : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)
------------------------------------------------------------------------------------------
Applicable Area            : I, II, V, and VI
Applicable Time Frame      : Global
Facility Type              : All fuel burning
Facility Size (MMBtu/hr)   : Greater than 100
Fuel Type                  : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.5 (SOX) (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 1c, 2c, 3e, 4g, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [Specified in Air Management Administration Technical
                                   Memorandum 83-05, "Stack Test Methods for Stationary Sources," June 1983.]
3e.    Monitoring Requirements  => other  [Specified by the Department.]
4g.    Averaging Time           => other  [Specified by the Department.]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city;
       Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George
       Counties. Area V: Calvert, Charles, and St. Mary's Counties. Area VI: Caroline, Cecil, Dorchester, Kent,
       Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.
(2)    Unless control equipment is installed.  For Area I, if compliance will cause or exacerbate violation of
       NAAQS, emission standard will be 1.8 lbs SO2/MMBtu.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------------
State                     : MARYLAND
Region                    : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)
--------------------------------------------------------------------------------------------------------
Applicable Area           : III and IV
Applicable Time Frame     : Global
Facility Type             : All fuel burning
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Solid
--------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 1.0 (2)
--------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3e, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified in Air Management Administration Technical
                                  Memorandum 83-05, "Stack Test Methods for Staitionary Sources," June 1983.]
3e.   Monitoring Requirements  => other  [Specified by the Department.]
4g.   Averaging Time           => other  [Specified by the Department.]
5d.   Reporting                => specified by the Director
--------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city;
      Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George
      Counties. Area V: Calvert, Charles, and St. Mary's Counties. Area VI: Caroline, Cecil, Dorchester, Kent,
      Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.
(2)   Unless control equipment is installed.  Cyclone type in excess of 1000 MMBtu/hour: emission standard for
      solid fuel is 3.5 lbs SO2/MMBtu.
--------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                     : MARYLAND
Region                    : 3
State Regulation Citation : Code of Maryland Regulations, Title 10, Subtitle 18. (1)
------------------------------------------------------------------------------------------------
Applicable Area           : I, II, V, and VI
Applicable Time Frame     : Global
Facility Type             : All fuel burning
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Process gas
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 0.3 (2)
------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1a, 2c, 3e, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [Specified in Air Management Administration Technical
                                  Memorandum 83-05, "Stack Test Methods for Stationary Sources," June 1983.]
3e.   Monitoring Requirements  => other  [Specified by the Department.]
4g.   Averaging Time           => other  [Specified by the Department.]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: Allegany, Garrett, and Washington Counties. Area II: Frederick County. Area III: Baltimore city;
      Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Area IV: Montgomery and Prince George
      Counties. Area V: Calvert, Charles, and St. Mary's Counties, Area VI: Caroline, Cecil, Dorchester, Kent,
      Queen Anne's, Somerset, Talbot, Wicomico, and Worchester Counties.
(2)   Unless control equipment is installed
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
---------------------------------------------------------------------------------------------
Applicable Area            : I
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid
---------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : No. 2 and lighter: 0.5, No. 4 and heavier: 2.8 (2)
(lb SO2/MMBtu)             : All weights: less than or equal to 4 (3)
---------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For all facilities >250 MMBtu/hour with
                                  continuous monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
---------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: All Non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   May be exceeded if emission reduction equipment is in place
(3)   For any 1 hour period
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
--------------------------------------------------------------------------------------------
Applicable Area            : I
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Less than 250
Fuel Type                  : Solid
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (over any 1 hour period) (2)
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Specified by the Department]
5d.   Reporting                => specified by the Director
--------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   Any facility <250 MMBtu/hour may petition for an application to meet the requirements for >250
      MMBtu/hour facilities if continuous monitoring is in place.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
-----------------------------------------------------------------------------------------------------
Applicable Area            : I
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.7 (thirty day running average not to be exceeded), 4.0 (daily average not to be
                             exceeded more than 2   days in any running 30 day period), and 4.8 (daily  average
                             max. not to be exceeded at any time).
-----------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Specified by the Department]
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------------------
Applicable Area            : II
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid
------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : No. 2 and lighter: 0.3; No. 4 and heavier: 2.8 (2)
(lb SO2/MMBtu)             : 4.0 for all weights (3)
------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For all facilities >250 MMBtu/hour with
                                  continuous monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   May be exceeded if emission control equipment is in place
(3)   Over a 1 hour period
------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 {1}
----------------------------------------------------------------------------------------------------
Applicable Area            : II
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Less than 250
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (over any 1 hour period) {2}
----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a, 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
----------------------------------------------------------------------------------------------------
Footnotes:
{1}   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
{2}   Any facility <250 MMBtu/hour may petition for an application to meet requirements for >250 MMBtu/hour
      facilities.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
----------------------------------------------------------------------------------------------
Applicable Area            : II
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.7 (Thirty day running average not to be exceeded), 4.0 (daily average not to be
                             exceeded more than 2 day in any 30 day running period), 4.8 (daily average max.
                             not to be exceeded at any time).
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5b.   Reporting                => state regulation
----------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
----------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : PENNSYLVANIA
Region : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)

Applicable Area : III
Applicable Time Frame : Before 07/01/72
Facility Type : All
Facility Size (MMBtu/hr) : All
Fuel Type : Liquid

Emissions Limits:
(% S) : No. 2 and lighter: 0.5; No. 4 and heavier: 2.8 (2)
(lb SO2/MMBtu) : 3.0 for all weights (3)

Compliance Procedures :: 1a, 2c, 3a or 3c, 4g, 5a
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by the Department]
3a. Monitoring Requirements => continuous SO2 monitoring [For facilities >250 MMBtu/hour with continous monitoring in place]
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [As specified by the Department]
5a. Reporting => specified in 40 CFR Part 60

Footnotes:
(1) Area I: all non-Air Basin Areas. Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre Air Basins. Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air Basins. Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins. Area V: Southeast Pennsylvania Air Basin.
(2) May be exceeded if emission control equipment is in place
(3) Over a 1 hour period

SO2 Regulation Report

State : PENNSYLVANIA
Region : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)

Applicable Area : III
Applicable Time Frame : Before 07/01/72
Facility Type : All
Facility Size (MMBtu/hr) : Less than 250
Fuel Type : Solid

Emissions Limits:
(lb SO2/MMBtu) : 3.0 (over any 1 hour period) (2)

Compliance Procedures :: 1a, 2c, 3c, 4g, 5d
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by the Department]
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [As specified by the Department]
5d. Reporting => specified by the Director

Footnotes:

(1) Area I: all non-Air Basin Areas. Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre Air Basins. Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air Basins. Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins. Area V: Southeast Pennsylvania Air Basin.

(2) Any facility <250 MMBtu/hour may petition for an application to meet requirements for >250 MMBtu/hour facilities if continuous monitoring is in place.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
-----------------------------------------------------------------------------------------
Applicable Area            : III
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 2.8 (Thirty day running average not to be exceeded), 3.0 (daily average not to be
                             exceeded more than 2 days in any running 30 day period), 3.6 (daily average max.
                             not to be exceeded at any time).
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
-----------------------------------------------------------------------------------------------
Applicable Area            : IV
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than 2.5 but less than 50
Fuel Type                  : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.0
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3c, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by the Department]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [As specified by the Department]
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
-------------------------------------------------------------------------------------------
Applicable Area            : IV
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than 50 but less than 2000
Fuel Type                  : All
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Use equation: A = 1.7(E^-0.14); where A is the allowable emissions in lbs/MMBtu
                             and E is the heat input to combustion unit in MMBtu's.
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by the Department]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                   monitoring in place]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [As specified by the Department]
5d.    Reporting                => specified by the Director
-------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : PENNSYLVANIA
Region                    : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------
Applicable Area           : IV
Applicable Time Frame     : Before   07/01/72
Facility Type             : All
Facility Size (MMBtu/hr)  : Greater than 2000
Fuel Type                 : All
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 0.6
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by the Department]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [As specified by the Department]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------
Applicable Area            : V, Inner Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Less than 250 (2)
Fuel Type                  : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.75 (Thirty day running average not to be exceeded), 1.0 (daily average not to be
                             exceeded more than 2 days in any running 30 day period), 1.2 (daily average max.
                             not to be exceeded). (3)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   Any facility <250 MMBtu/hour may petition for an application to meet requirements for >250 MMBtu/hour
      facilities if continuous monitoring is in place.
(3)   If no continuous monitoring is in place, must meet 1.0.
------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : PENNSYLVANIA
Region : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)

Applicable Area : V, Inner Zone
Applicable Time Frame : Before 07/01/72
Facility Type : All
Facility Size (MMBtu/hr) : Greater than or equal to 250 (2)
Fuel Type : Solid

Emissions Limits:
(lb SO2/MMBtu) : 0.45 (Thirty day running average), 0.6 (daily average not to be exceeded more than two days in any running thirty day period), and 0.72 (maximum daily average). (3)

Compliance Procedures :: 1a, 2c, 3a or 3c, 4g, 5d
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by the Department]
3a. Monitoring Requirements => continuous SO2 monitoring
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [As specified by the Department]
5d. Reporting => specified by the Director

Footnotes:

(1) Area I: all non-Air Basin Areas. Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre Air Basins. Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air Basins. Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins. Area V: Southeast Pennsylvania Air Basin.

(2) Any facility <250 MMBtu/hour may petition for an application to meet requirements for >250 MMBtu/hour facilities if continuous monitoring is in place.

(3) If no continuous monitoring is in place, must meet 0.6 limit.

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                       : PENNSYLVANIA
Region                      : 3
State Regulation Citation   : Pennsylvania Air Pollution Control Act, Title 25 (1)
--------------------------------------------------------------------------------------------------
Applicable Area             : V, Inner Zone
Applicable Time Frame       : Before   07/01/72
Facility Type               : All
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Liquid
--------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : No. 2 and lighter: 0.2; No. 4 and heavier: 0.5 (2)
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                  monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   May be exceeded if emission control equipment is in place
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation  : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------------------
Applicable Area            : V, Inner Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Less than 250
Fuel Type                  : Commercial liquid
------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.0
------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------------------
Applicable Area            : V, Inner Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than or equal to 250
Fuel Type                  : Commercial liquid
------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.6
------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
--------------------------------------------------------------------------------------------------
Applicable Area            : V, Inner Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Noncommercial gas or liquid (2)
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.6
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by the Department]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                   monitoring in place]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [As specified by the Department]
5d.    Reporting                => specified by the Director
--------------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
(2)    Noncommercial fuel: any gaseous or liquid fuel generated as a byproduct or waste product which is not
       specifically produced or manufactured for sale; any mixture of a noncommercial and a commercial fuel oil
       where at least 50% of the heat content is derived from the noncommercial fuel portion.
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
-----------------------------------------------------------------------------------------
Applicable Area            : V, Outer Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)  : All
Fuel Type                  : Liquid
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : No. 2 and lighter: 0.3; No. 4 and heavier: 1.0 (2)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                  monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
(2)   May be exceeded if emission control equipment is in place
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------
Applicable Area            : V, Outer Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Commercial liquid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                  monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------------
Applicable Area            : V, Outer Zone
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Noncommercial gas or liquid (2)
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3a or 3c, 4g, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by the Department]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                   monitoring in place]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [As specified by the Department]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
(2)    Noncommercial fuel: any gaseous or liquid fuel generated as a byproduct or waste product which is not
       specifically produced or manufactured for sale; any mixture of a noncommercial and a commercial fuel oil
       where at least 50% of the heat content is derived from the noncommercial fuel portion.
------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : PENNSYLVANIA
Region : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)

Applicable Area : V, Outer Zone
Applicable Time Frame : Before 07/01/72
Facility Type : All
Facility Size (MMBtu/hr) : All
Fuel Type : Solid

Emissions Limits:
(lb SO2/MMBtu) : 0.9 (Thirty day running average), 1.2 (daily average not to be exceeded more than two days in any running thirty day period), and 1.44 (daily average maximum). (2)

Compliance Procedures :: 1a, 2c, 3a or 3c, 4g, 5d
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by the Department]
3a. Monitoring Requirements => continuous SO2 monitoring
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [As specified by the Department]
5d. Reporting => specified by the Director

Footnotes:

(1) Area I: all non-Air Basin Areas. Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre Air Basins. Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air Basins. Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins. Area V: Southeast Pennsylvania Air Basin.

(2) If no continuous monitoring is in place, must meet 1.2.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Liquid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a, 3a, 4a, 5a
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.    Monitoring Requirements  => continuous SO2 monitoring
4a.    Averaging Time           => specified in 40 CFR Part 60
5a.    Reporting                => specified in 40 CFR Part 60
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
       Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
       Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
       Pennsylvania Air Basin.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Solid
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a, 3a, 4a, 5a
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : PENNSYLVANIA
Region                     : 3
State Regulation Citation : Pennsylvania Air Pollution Control Act, Title 25 (1)
------------------------------------------------------------------------------------------
Applicable Area            : Statewide- all not covered under other provisions
Applicable Time Frame      : Before   07/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All
------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 500 (expressed as SO)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3a or 3c, 4g, 5d
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by the Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For facilities >250 MMBtu/hour with continous
                                  monitoring in place]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [As specified by the Department]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I: all non-Air Basin Areas.  Area II: Erie, Harrisburg, York, Lancaster, Scranton, and Wilkes-Barre
      Air Basins.  Area III: Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley, and Johnstown Air
      Basins.  Area IV: Allegheny County, Beaver Valley, and Monongahela Valley Air Basins.  Area V: Southeast
      Pennsylvania Air Basin.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : VIRGINIA
Region                     : 3
State Regulation Citation : Virginia State Air Pollution Control Board Regulations, Part IV (1)
-----------------------------------------------------------------------------------------------
Applicable Area            : 1 through 6
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : see Equation (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2a, 3a or 3e, 4a or 4g, 5a or 5e
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Three separate runs]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3e.   Monitoring Requirements  => other  [As specified by the Virginia State Air Pollution Control Board.]
4a.   Averaging Time           => specified in 40 CFR Part 60
4g.   Averaging Time           => other  [As approved by the Board.]
5a.   Reporting                => specified in 40 CFR Part 60
5e.   Reporting                => other  [Upon request of the Board]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   Virginia Air Quality Control Regions (AQCR): 1: Eastern Tennesee-Southwestern Virginia Interstate AQCR.
      2: Valley of Virginia Intrastate AQCR.  3: Central Virginia Intrastate AQCR.  4: Northeastern Virgina
      Intrastate AQCR.  5:  State Capital Intrastate AQCR.  6: Hampton Roads Intrastate AQCR.  7: National
      Capital Interstate AQCR.
(2)   S = 2.64K, Where S = allowable emission of sulfur dioxide in lbs/hour and K =  actual heat input at
      total capacity expressed in Btu x 10^6 per hour.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : VIRGINIA
Region                     : 3
State Regulation Citation : Virgina State Air Pollution Control Board Regulations, Part IV. (1)
----------------------------------------------------------------------------------------------------
Applicable Area            : 7
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid or gaseous
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (2)
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2a or 2c, 3a or 3e, 4a or 4g, 5a or 5e
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Three separate runs]
2c.    Test Methods             => other testing  [As approved by the Board]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3e.    Monitoring Requirements  => other  [As specified by the Board]
4a.    Averaging Time           => specified in 40 CFR Part 60
4g.    Averaging Time           => other  [As approved by the Board]
5a.    Reporting                => specified in 40 CFR Part 60
5e.    Reporting                => other  [Upon request of the Board]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Virginia Air Quality Control Regions (AQCR): 1:  Eastern Tennesee-Southwestern Virginia Interstate AQCR.
        2: Valley of Virginia Intrastate AQCR.  3: Central Virginia Intrastate AQCR. 4: Northeastern Virginia
       Intrastate AQCR. 5: State Capital Intrastate AQCR. 6: Hampton Roads Intrastate AQCR. 7: National Capital
       Interstate AQCR.
(2)    S = 1.06 K,  Where S = allowable emissions of SO2 in lbs/ hour and K = actual heat input at total
       capacity.
----------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : VIRGINIA
Region : 3
State Regulation Citation : Virgina State Air Pollution Control Board Regulations, Part IV. (1)

Applicable Area : 7
Applicable Time Frame : Global
Facility Type : All
Facility Size (MMBtu/hr) : All
Fuel Type : Solid

Emissions Limits:
(lb SO2/MMBtu) : See equation (2)

Compliance Procedures :: 1b, 2a or 2c, 3a or 3e, 4a or 4g, 5a or 5e
1b. Heat Input Determination => unit actual or operating (MMBtu/hr)
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Three separate runs]
2c. Test Methods => other testing [As approved by the Board]
3a. Monitoring Requirements => continuous SO2 monitoring
3e. Monitoring Requirements => other [As specified by the Board]
4a. Averaging Time => specified in 40 CFR Part 60
4g. Averaging Time => other [As approved by the Board]
5a. Reporting => specified in 40 CFR Part 60
5e. Reporting => other [Upon request of the Board]

Footnotes:

(1) Virginia Air Quality Control Regions (AQCR): 1: Eastern Tennesee-Southwestern Virginia Interstate AQCR. 2: Valley of Virginia Intrastate AQCR. 3: Central Virginia Intrastate AQCR. 4: Northeastern Virginia Intrastate AQCR. 5: State Capital Intrastate AQCR. 6: Hampton Roads Intrastate AQCR. 7: National Capital Interstate AQCR.

(2) S = 1.52 K, Where S = allowable emissions of SO2 in lbs/ hour and K = actual heat input at total capacity.

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : VIRGINIA
Region                     : 3
State Regulation Citation : Virgina State Air Pollution Control Board Regulations, Part IV. (1)
------------------------------------------------------------------------------------------
Applicable Area            : 7
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Combinations
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : see Equation (2)
------------------------------------------------------------------------------------------
Compliance Procedures             :: 1b, 2a or 2c, 3a or 3e, 4a or 4g, 5c or 5e
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Three separate runs]
2c.   Test Methods             => other testing  [As approved by the Board]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3e.   Monitoring Requirements  => other  [As specified by the Board]
4a.   Averaging Time           => specified in 40 CFR Part 60
4g.   Averaging Time           => other  [As approved by the Board]
5c.   Reporting                => specified in 40 CFR Part 51
5e.   Reporting                => other  [Upon request of the Board]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Virginia Air Quality Control Regions (AQCR): 1: Eastern Tenesee-Southwestern Virginia Interstate AQCR.
      2: Valley of Virginia Intrastate AQCR.  3: Central Virginia Intrastate AQCR.  4: Northeastern Virginia
      Intrastate AQCR.  5: State Capital Intrastate AQCR.  6: Hampton Roads Intrastate AQCR.  7: National
      Capital Interstate AQCR.
(2)   PS = K (x(1.06) + y(1.52))/(x + y).  Where PS = prorated allowable emissions of SO2 expressed in
      lbs/hour, x = percentage of actual heat input at total capacity derived from liquid or gaseous fuel, y =
      percentage of actual heat input at total capacity derived form solid fuels, and K = actual heat input at
      total capacity expressed as Btu x 10^6 per hour.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : WEST VIRGINIA
Region                      : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
--------------------------------------------------------------------------------------------
Applicable Area             : I and II, Kammer plant and similar units
Applicable Time Frame       : After    08/17/71
Facility Type               : a (2)
Facility Size (MMBtu/hr)    : Greater than or equal to 10
Fuel Type                   : All
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 6.8
--------------------------------------------------------------------------------------------
Compliance Procedures            :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
--------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
       unit classified as a Type "a" unit.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                     : WEST VIRGINIA
Region                    : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
------------------------------------------------------------------------------------------------------
Applicable Area           : III, Fort Martin Power Station and similar units. (2)
Applicable Time Frame     : Global
Facility Type             : a (3)
Facility Size (MMBtu/hr)  : Greater than or equal to 10
Fuel Type                 : All
------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 3.1
------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4d.   Averaging Time           => 24 hours
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------------------
Footnotes:
(1)   West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
      Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
      Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
      above.
(2)   Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.
(3)   Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
      other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
      classified as Type "a" or Type "c," such as industrial pulverized-fuel fired furnaces, cyclone furnaces,
      gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
      unit classified as a Type "a" unit.
------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : WEST VIRGINIA
Region                      : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
-----------------------------------------------------------------------------------------------
Applicable Area             : I and II
Applicable Time Frame       : Before   08/17/88
Facility Type               : b and c (2)
Facility Size (MMBtu/hr)    : Greater than or equal to 10
Fuel Type                   : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 3.1
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning unit
       classified as a Type "a" unit.
-----------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : WEST VIRGINIA
Region : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)

Applicable Area : III, Harrison Power Station and similar units (2)
Applicable Time Frame : Global
Facility Type : a (3)
Facility Size (MMBtu/hr) : Greater than or equal to 10
Fuel Type : All

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 5.12

Compliance Procedures :: 1b or 1c, 2b4, 3a, 4d, 5d
1b. Heat Input Determination => unit actual or operating (MMBtu/hr)
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
2b4. Test Methods => fuel testing: other [Equivalent fuel sulfur content to achieve compliance]
3a. Monitoring Requirements => continuous SO2 monitoring
4d. Averaging Time => 24 hours
5d. Reporting => specified by the Director

Footnotes:

(1) West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district; Elk, New Creek, and Piedmont districts of Mineral County. Priority Region II: Jackson, Pleasants, Tyler, Wetrel, and Wood Counties. Priority Region III: All other Counties and districts not included above.

(2) Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.

(3) Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces, gas-fired and liquid-fired units. Facility Type "c" is any hand-fired or stoker-fired fuel burning unit classified as a Type "a" unit.

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : WEST VIRGINIA
Region                     : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
----------------------------------------------------------------------------------------------------
Applicable Area            : III, Albright Power Station and similar units (2)
Applicable Time Frame      : Global
Facility Type              : a (3)
Facility Size (MMBtu/hr)   : Greater than or equal to 10
Fuel Type                  : All
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.2
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.
(3)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning unit
       classified as a Type "a" unit.
----------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : WEST VIRGINIA
Region                     : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
--------------------------------------------------------------------------------------------
Applicable Area            : III (2)
Applicable Time Frame      : Global
Facility Type              : b and c (3)
Facility Size (MMBtu/hr)   : Greater than or equal to 10
Fuel Type                  : All
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.2
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4d.   Averaging Time           => 24 hours
5d.   Reporting                => specified by the Director
--------------------------------------------------------------------------------------------
Footnotes:
(1)   West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
      Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
      Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
      above.
(2)   Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.
(3)   Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
      other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not
      classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
      gas-fired and liquid-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning unit
      classified as a Type "a" unit.
--------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                     : WEST VIRGINIA
Region                    : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
-------------------------------------------------------------------------------------------
Applicable Area           : III, Rivesville Power Station and similar units (2)
Applicable Time Frame     : Global
Facility Type             : a (3)
Facility Size (MMBtu/hr)  : Greater than or equal to 10
Fuel Type                 : All
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 3.2
-------------------------------------------------------------------------------------------
Compliance Procedures         :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4d.   Averaging Time           => 24 hours
5d.   Reporting                => specified by the Director
-------------------------------------------------------------------------------------------
Footnotes:
(1)   West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
      Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
      Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
      above.
(2)   Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.
(3)   Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
      other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not
      classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
      gas-fired and liquid-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning unit
      classified as a Type "a" unit.
-------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : WEST VIRGINIA
Region                      : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
-----------------------------------------------------------------------------------------------
Applicable Area             : III, Philip Sporn Power Station and similar units (2)
Applicable Time Frame       : Global
Facility Type               : a (3)
Facility Size (MMBtu/hr)    : Greater than or equal to 10
Fuel Type                   : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 3.2
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4d.   Averaging Time           => 24 hours
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
      Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
      Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
      above.
(2)   Not including Kanawha, Putnam, or Falls Counties or the Kanawha Magisterial district of Fayette County.
(3)   Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
      other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not
      classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
      gas-fired and liquid-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning unit
      classified as a Type "a" unit.
-----------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                     : WEST VIRGINIA
Region                    : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
-----------------------------------------------------------------------------------------------
Applicable Area           : I and II, Mitchell Plant and similar units
Applicable Time Frame     : Before   08/17/71
Facility Type             : a (2)
Facility Size (MMBtu/hr)  : Greater than or equal to 10
Fuel Type                 : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 7.5
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
       unit classified as a Type "a" unit.
-----------------------------------------------------------------------------------------------
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SO2 Regulation Report

State : WEST VIRGINIA
Region : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)

Applicable Area : I and II, Willow Island Station and similar units
Applicable Time Frame : Before 08/17/81
Facility Type : a (2)
Facility Size (MMBtu/hr) : Greater than or equal to 10
Fuel Type : All

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 2.7

Compliance Procedures :: 1b or 1c, 2b4, 3a, 4d, 5d
1b. Heat Input Determination => unit actual or operating (MMBtu/hr)
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
2b4. Test Methods => fuel testing: other [Equivalent fuel sulfur content to achieve compliance.]
3a. Monitoring Requirements => continuous SO2 monitoring
4d. Averaging Time => 24 hours
5d. Reporting => specified by the Director

Footnotes:

(1) West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district; Elk, New Creek, and Piedmont districts of Mineral County. Priority Region II: Jackson, Pleasants, Tyler, Wetrel, and Wood Counties. Priority Region III: All other Counties and districts not included above.

(2) Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or other vapor to produce electric power for sale. Facility Type "b" is any fuel burning unit not classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces, gas-fired and liquid-fuel-fired units. Facility Type "c" is any hand-fired or stoker-fired fuel burning unit classified as a Type "a" unit.

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : WEST VIRGINIA
Region                      : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
-----------------------------------------------------------------------------------------------
Applicable Area             : Region IV of Priority Region III, John Amos Plant and similar units (2)
Applicable Time Frame       : Global
Facility Type               : a (3)
Facility Size (MMBtu/hr) : Greater than or equal to 10
Fuel Type                   : All
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 1.6
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4d.   Averaging Time           => 24 hours
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
      Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
      Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
      above.
(2)   Region IV includes Kanawha, Putnam, and Falls Counties and the Kanawha Magisterial district of Fayette
      County.
(3)   Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
      other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
      classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
      gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
      unit classified as a Type "a" unit.
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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : WEST VIRGINIA
Region                     : 3
State Regulation Citation  : West Virginia Code of State Regulations, Title 45 (1)
--------------------------------------------------------------------------------------------
Applicable Area            : Region IV of Priority Region III, Kanawha River Plant and similar units (2)
Applicable Time Frame      : Global
Facility Type              : a (3)
Facility Size (MMBtu/hr)   : Greater than or equal to 10
Fuel Type                  : All
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.6
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
--------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Region IV includes Kanawha, Putnam, and Falls Counties and the Kanawha Magisterial district of Fayette
       County.
(3)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
       unit classified as a Type "a" unit.
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SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : WEST VIRGINIA
Region                     : 3
State Regulation Citation  : West Virginia Code of State Regulations, Title 45 (1)
---------------------------------------------------------------------------------------------
Applicable Area            : Region VII of Priority Region I, Mt. Storm Plant and similar units (2)
Applicable Time Frame      : Before   08/17/71
Facility Type              : a (3)
Facility Size (MMBtu/hr)   : Greater than or equal to 10
Fuel Type                  : All
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.7
---------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
---------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Region VII includes the Grant Union district, and the Elk, New Creek, and Piedmont districts of Mineral
       County.
(3)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
       unit classified as a Type "a" unit.
---------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : WEST VIRGINIA
Region                    : 3
State Regulation Citation : West Virginia Code of State Regulations, Title 45 (1)
------------------------------------------------------------------------------------------
Applicable Area           : Region IV of Priority Region III (2)
Applicable Time Frame     : Before   08/17/71
Facility Type             : b and c (3)
Facility Size (MMBtu/hr)  : Greater than or equal to 10
Fuel Type                 : All
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 1.6
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1b or 1c, 2b4, 3a, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [Equivalent fuel sulfur content to achieve compliance.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4d.    Averaging Time           => 24 hours
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)    West Virginia Priority Region I: Brooke, Hancock, Marshall, and Ohio Counties; Grant Union district;
       Elk, New Creek, and Piedmont districts of Mineral County.  Priority Region II: Jackson, Pleasants,
       Tyler, Wetrel, and Wood Counties.  Priority Region III: All other Counties and districts not included
       above.
(2)    Region IV includes Kanawha, Putnam, and Falls Counties and the Kanawha Magisterial district of Fayette
       County.
(3)    Facility Type "a" is any fuel burning unit which has as its primary purpose the generation of steam or
       other vapor to produce electric power for sale.  Facility Type "b" is any fuel burning unit not
       classified as Type "a" or Type "c," such as industrial pulverized-fuel-fired furnaces, cyclone furnaces,
       gas-fired and liquid-fuel-fired units.  Facility Type "c" is any hand-fired or stoker-fired fuel burning
       unit classified as a Type "a" unit.
------------------------------------------------------------------------------------------
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SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : ALABAMA
Region                     : 4
State Regulation Citation  : Chapter 5 and Chapter 14
---------------------------------------------------------------------------------------------
Applicable Area            : Category I counties, and Jackson county (1)
Applicable Time Frame      : Global
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.8
---------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2b4, 2c, 3a, 3c, 3d, 3e, 4d, 5b, 5c
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Operating at or above the maximum
                                   capacity which such installation is capable of being operated.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
2b4.   Test Methods             => fuel testing: other  [The sulfur content of fuel, as burned, except natural
                                   gas, shall be determined in accordance with current recognized ASTM
                                   procedures.]
2c.    Test Methods             => other testing  [The Division may conduct tests and take samples of air
                                   contaminates, fuel, process material or other material which may affect
                                   emissions from any source.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators,
                                   existing prior to 8/17/71, with a heat input greater than or equal to 250
                                   MMBtu/hr, equipped with a flue gas desulfurization unit.  May be required
                                   for other sources.]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
3e.    Monitoring Requirements  => other  [As specified by the Director.  Continuous O2 and CO2 monitoring when
                                   these measurements are required to convert SO2 data to the emission
                                   standard.]
4d.    Averaging Time           => 24 hours  [Summarized monthly]
5b.    Reporting                => state regulation  [Chapter 7, 1.7.2;  Daily averages and monthly summary of
                                   emissions, and sulfur content of fuel, shall be submitted to the Director
                                   biannually.]
5c.    Reporting                => specified in 40 CFR Part 51  [Appendix P]
---------------------------------------------------------------------------------------------
Footnotes:
(1)    Refers to counties classified as Class I or Class II in the State of Alabama Air Pollution Control
       Commission's Rules and Regulations, Appendix B, October 3, 1986.
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : ALABAMA
Region                     : 4
State Regulation Citation : Chapter 5 and Chapter 14
------------------------------------------------------------------------------------------
Applicable Area            : Category II counties (1)
Applicable Time Frame      : Global
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 4.0
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2b4, 2c, 3a, 3c, 3d, 3e, 4d, 5b, 5c
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Operating at or above the maximum
                                  capacity which such installation is capable of being operated.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
2b4.  Test Methods             => fuel testing: other  [The sulfur content of fuel, as burned, except natural
                                  gas, shall be determined in accordance with current recognized ASTM
                                  procedures.]
2c.   Test Methods             => other testing  [The Division may conduct tests and take samples of air
                                  contaminates, fuel, process material or other material which may affect
                                  emissions from any source.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators,
                                  existing prior to 8/17/71, with a heat input greater than or equal to 250
                                  MMBtu/hr, and equipped with a flue gas desulfurization unit.  May be
                                  required for other sources.]
3c.   Monitoring Requirements  => sulfur content of fuel
3d.   Monitoring Requirements  => quantity of fuel
3e.   Monitoring Requirements  => other  [As specified by the Director.  Continuous O2 and CO2 monitoring when
                                  these measurements are required to convert SO2 data to the emission
                                  standard.]
4d.   Averaging Time           => 24 hours  [Summarized monthly]
5b.   Reporting                => state regulation  [Chapter 7, 1.7.2;  Daily averages and monthly summary of
                                  emissions, and sulfur content of fuel, shall be submitted to the Director
                                  biannually.]
5c.   Reporting                => specified in 40 CFR Part 51  [Appendix P]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Refers to counties classified as Class I or Class II in the State of Alabama Air Pollution Control
      Commission's Rules and Regulations, Appendix B, October 3, 1986.
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SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : ALABAMA
Region                     : 4
State Regulation Citation  : Chapter 5 and Chapter 14
----------------------------------------------------------------------------------------------------
Applicable Area            : Jackson county (1)
Applicable Time Frame      : Global
Facility Type              : Electric utility steam generating installations
Facility Size (MMBtu/hr)   : Greater then or equal to 5000
Fuel Type                  : All fossil fuels
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.2
----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2b4, 2c, 3a, 3b, 3c, 3d, 3e, 4d, 5b, 5c
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Operating at or above the maximum
                                   capacity which such installation is capable of being operated.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
2b4.   Test Methods             => fuel testing: other  [The sulfur content of fuel, as burned, except natural
                                   gas, shall be determined in accordance with current recognized ASTM
                                   procedures.]
2c.    Test Methods             => other testing  [The Division may conduct tests and take samples of air
                                   contaminates, fuel, process material or other material which may affect
                                   emissions from any source.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators,
                                   existing prior to 8/17/71, with a heat input greater than or equal to 250
                                   MMBtu/hr, and equipped with a flue a gas desulfurization unit.  May be
                                   required for other sources.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate  [Required if the total rated
                                   capacity is greater than or equal to 1500 Btu per hour.]
3c.    Monitoring Requirements  => sulfur content of fuel
3d.    Monitoring Requirements  => quantity of fuel
3e.    Monitoring Requirements  => other  [As specified by the Director.  Continuous O2 and CO2 monitoring when
                                   these measurements are required to convert SO2 data to the emission
                                   standard.]
4d.    Averaging Time           => 24 hours  [Summarized monthly]
5b.    Reporting                => state regulation  [Chapter 7, 1.7.2;  Daily averages and monthly summary of
                                   emissions, and sulfur content of fuel, shall be submitted to the Director
                                   biannually.]
5c.    Reporting                => specified in 40 CFR Part 51  [Appendix P]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Refers to counties classified as Class I or Class II in the State of Alabama Air Pollution Control
       Commission's Rules and Regulations, Appendix B, October 3, 1986.
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                     : FLORIDA
Region                    : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
-----------------------------------------------------------------------------------------------------
Applicable Area           : Leon county, Wakulla county, and the city of Tallahassee's A.B.Hopkins and Purdom
                            Generating Stations
Applicable Time Frame     : Before   01/18/72
Facility Type             : Fossil fuel steam generators
Facility Size (MMBtu/hr)  : Greater than 250
Fuel Type                 : Liquid fuel
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 1.87
-----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                   sampling procedure after departmental approval or if such procedure is
                                   currently part of the source operating permit.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                   equipment.]
4g.    Averaging Time           => other  [Not specified.]
5e.    Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                   emissions.]
-----------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : FLORIDA
Region                      : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
-----------------------------------------------------------------------------------------------
Applicable Area             : Duval county excluding the area north of Hecksher Drive
Applicable Time Frame       : Before   01/18/72
Facility Type               : Fossil fuel steam generators
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Liquid fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 1.65
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                  sampling procedure after departmental approval or if such procedure is
                                  currently part of the source operating permit.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                  equipment.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                  emissions.]
-----------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : FLORIDA
Region                     : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
------------------------------------------------------------------------------------------
Applicable Area            : Duvall county north of Hecksher Drive excluding Jacksonville Electric Authority
                             Northside Generating Stations
Applicable Time Frame      : Before   01/18/72
Facility Type              : Fossil fuel steam generators
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Liquid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.5
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                   sampling procedure after departmental approval or if such procedure is
                                   currently part of the source operating permit.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                   equipment.]
4g.    Averaging Time           => other  [Two hour.]
5e.    Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                   emissions.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : FLORIDA
Region                     : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
-----------------------------------------------------------------------------------------
Applicable Area            : Jacksonville Electric Authority's Southside and Kennedy Generating Stations;
                             Hillsborough county including Tampa Electric Company's Gannon Station Units 1
                             through 4, and Hooker's Point Generating Station; Manatee county, Florida Power
                             and Light Company's Manatee Generating Station; Dade county, Broward county, Palm
                             Beach county, Florida Power and Light Company's Cutler Units 4, 5, and 6; Fort
                             Lauderdale Units 4 and 5; Riveria Units 1 and 2
Applicable Time Frame      : Before   01/18/72
Facility Type              : Fossil fuel steam generators
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Liquid fuel
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.1 (1)
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                  sampling procedure after departmental approval or if such procedure is
                                  currently part of the source operating permit.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                  equipment.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                  emissions.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   In the event of an energy or fuel crisis, the SO2 emission limit for Dade, Broward, and Palm Beach
      counties, Florida Power and Light Company's Cutler Units 4, 5, and 6, Fort Lauderdale Units 4 and 5, and
      Riveria Units 1 and 2 is 2.75 pounds per million Btu heat input.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                     : FLORIDA
Region                    : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
-------------------------------------------------------------------------------------------------
Applicable Area           : Jacksonville Electric Authority's Northside Generating Station, and Gulf Power
                            Company's Crist Steam Plant Units 1, 2, and 3 in Escambia county
Applicable Time Frame     : Before   01/18/72
Facility Type             : Fossil fuel steam generators
Facility Size (MMBtu/hr)  : Greater than 250
Fuel Type                 : Liquid fuel
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 1.98
-------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                   sampling procedure after departmental approval or if such procedure is
                                   currently part of the source operating permit.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                   equipment.]
4g.    Averaging Time           => other  [Not specified.]
5e.    Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                   emissions.]
-------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : FLORIDA
Region                     : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
-----------------------------------------------------------------------------------------
Applicable Area            : All other areas of the state
Applicable Time Frame      : Before   01/18/72
Facility Type              : Fossil fuel steam generators
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Liquid fuel
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.75
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                  sampling procedure after departmental approval or if such procedure is
                                  currently part of the source operating permit.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                  equipment.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                  emissions.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                       : FLORIDA
Region                      : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
--------------------------------------------------------------------------------------------------
Applicable Area             : Gulf Power Company Crist Steam Plant Units 4, 5, 6, and 7, in Escambia county
Applicable Time Frame       : Before   01/18/72
Facility Type               : Fossil fuel steam generators
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Solid fuel
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 5.90
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                  sampling procedure after departmental approval or if such procedure is
                                  currently part of the source operating permit.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                  equipment.]
4g.   Averaging Time           => other  [Not specified.]
5e.   Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                  emissions.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : FLORIDA
Region                    : 4
State Regulation Citation : Title 17, Chapter 17-2, sections .600(5)(b)(3), and .700
------------------------------------------------------------------------------------------
Applicable Area           : All other areas of the state
Applicable Time Frame     : Before   01/18/72
Facility Type             : Fossil fuel steam generators
Facility Size (MMBtu/hr)  : Greater than 250
Fuel Type                 : Solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 6.17
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2a, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be used as an alternate
                                   sampling procedure after departmental approval or if such procedure is
                                   currently part of the source operating permit.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources with SO2 emission control
                                   equipment.]
4g.    Averaging Time           => other  [Not specified.]
5e.    Reporting                => other  [A quarterly report explaining the nature and cause of excess
                                   emissions.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : GEORGIA
Region                      : 4
State Regulation Citation : 391-3-1.02(g)
-----------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    01/01/72
Facility Type               : Fossil fuel fired steam generators
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Liquid fossil fuel or liquid fossil fuel and wood residue
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than 0.80 or by equation (1)
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2a, 2b4, 2c, 3a, 4a, 5a
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.  Test Methods             => fuel testing: other  [Sulfur content of fuel by the appropriate ASTM method
                                  may be required.  Heating value and ash content may be required.]
2c.   Test Methods             => other testing  [Any sampling, computation, and analysis to determine the
                                  compliance with any of the standards shall be by methods and procedures
                                  aporoved by the Director prior to sampling. Burn rates and hours of
                                  operation and monthly summaries may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Specifically required for sources with a heat
                                  input greater than 250 million Btu's per hour and with SO2 emission control
                                  equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
-----------------------------------------------------------------------------------------
Footnotes:
(1)   When different fossil fuels are burned simultaneously in any combination, the applicable standard shall
      be determined by proration using the following formula:  a = y (0.80) + z (1.2) / y + z , where y =
      percent of total heat input derived from liquid fossil fuel, and z = percent of total heat input derived
      from solid fossil fuel, and a = the allowable emission in pounds per million Btu's.
-----------------------------------------------------------------------------------------
```

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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : GEORGIA
Region                      : 4
State Regulation Citation : 391-3-1.02(g)
--------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    01/01/72
Facility Type               : Fossil fuel fired steam generators
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Solid fossil fuel or derived from solid fossil fuel and wood residue
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than 1.2 or by equation (1)
--------------------------------------------------------------------------------------------
Compliance Procedures            :: 1b, 2a, 2b4, 2c, 3a, 4a, 5a
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.  Test Methods             => fuel testing: other  [Sulfur content of fuel by the appropriate ASTM method
                                  may be required.  Heating value and ash content may be required.]
2c.   Test Methods             => other testing  [Any sampling, computation, and analysis to determine the
                                  compliance with any of the standards shall be by methods and procedures
                                  approved by the Director prior to sampling. Burn rates and hours of
                                  operation and monthly summaries may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Specifically required for sources with a heat
                                  input greater than 250 million Btu's per hour and with SO2 emission control
                                  equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------------------
Footnotes:
(1)   When different fossil fuels are burned simultaneously in any combination, the applicable standard shall
      be determined by proration using the following formula:  a = y (0.80) + z (1.2) / y + z , where y =
      percent of total heat input derived from liquid fossil fuel, and z = percent of total heat input derived
      from solid fossil fuel, and a = the allowable emission in pounds per million Btu's.
--------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : GEORGIA
Region                      : 4
State Regulation Citation : 391-3-1.02(g)
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Fossil fuel fired steam generators
Facility Size (MMBtu/hr)    : Less than 100
Fuel Type                   : All fossil fuels and wood residue
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than or equal to 2.5, by weight (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2b4, 2c, 3a, 4a, 5b
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Sulfur content of fuels by the appropriate ASTM method
                                  may be required.  Heating value and ash content of fuel may be required.]
2c.   Test Methods             => other testing  [Any sampling, computation, and analysis to determine the
                                  compliance with any of the standards shall be by methods and procedures
                                  approved by the Director prior to sampling.  Burn rates, hours of operation,
                                  and monthly summaries may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Specifically required for sources with a heat
                                  input greater than 250 MMBtu per hour and with SO2 emission control
                                  equipment.  These sources must comply with Performance Specification 2 of
                                  Appendix B, 40 CFR part 60.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [(6)2(vi);  A quarterly report summarizing the nature and
                                  cause of excess emissions; emission averages for each averaging period
                                  during which the standard was exceeded; the data and time identifying any
                                  period if and when the continuous emission monitoring system was inoperative
                                  and the nature of system repairs or adjustments (proof required).  Data
                                  reporting and reduction procedures including alternative and or equivalent
                                  emission monitoring may vary from those specified, with Director approval,
                                  if they are at least as accurate as the specified procedures.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   The Director may allow fuel with a higher sulfur content to be used provided that the source utilizes
      sulfur removal and that the emissions do not exceed the standard utilizing no sulfur removal.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : GEORGIA
Region                     : 4
State Regulation Citation : 391-3-1.02(g)
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fossil fuel fired steam generators
Facility Size (MMBtu/hr)   : Greater than or equal to 100
Fuel Type                  : All fossil fuels and wood residue
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 3.0, by weight (1)
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2b4, 2c, 3a, 4a, 5b
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2b4.  Test Methods             => fuel testing: other  [Sulfur content of fuels by the appropriate ASTM method
                                  may be required.  Heating value and ash content of fuel may be required.]
2c.   Test Methods             => other testing  [Any sampling, computation, and analysis to determine the
                                  compliance with any of the standards shall be by methods and procedures
                                  approved by the Director prior to sampling.  Burn rates, hours of operation,
                                  and monthly summaries may be required.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Specifically required for sources with a heat
                                  input greater than 250 MMBtu per hour and with SO2 emission control
                                  equipment.  These sources must comply with Performance Specification 2 of
                                  Appendix B, 40 CFR part 60.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [(6)2(vi);  A quarterly report summarizing the nature and
                                  cause of excess emissions; emission averages for each averaging period
                                  during which the standard was exceeded; the data and time identifying any
                                  period if and when the continuous emission monitoring system was inoperative
                                  and the nature of system repairs or adjustments (proof required).  Data
                                  reporting and reduction procedures including alternative and or equivalent
                                  emission monitoring may vary from those specified, with Director approval,
                                  if they are at least as accurate as the specified procedures.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   The Director may allow fuel with a higher sulfur content to be used provided that the source utilizes
      sulfur removal and that the emissions do not exceed the standard utilizing no sulfur removal.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : KENTUCKY
Region                     : 4
State Regulation Citation : Title 401, Chapter 61, section 015
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   08/17/71
Facility Type              : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Liquid/gaseous fuel and solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : As specified in Appendix B to 401 KAR 61:015. (1)
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.   Test Methods              => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.  Test Methods              => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                   D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                   D-1826-64(70).]
2c.   Test Methods              => other testing  [The fuel burn rate and the material balance over the steam
                                   generation system.]
2d.   Test Methods              => other testing  [A performance test is required for facilities with an
                                   alternate emission rate.]
3a.   Monitoring Requirements   => continuous SO2 monitoring  [Not required if a source does not use a flue gas
                                   desulfurization device and the emissions are monitored by fuel analysis.]
3c.   Monitoring Requirements   => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.   Monitoring Requirements   => quantity of fuel  [It may be required to be measured daily or at shorter
                                   intervals.]
3e.   Monitoring Requirements   => other  [The heating value and ash content of fuels measured at least weekly
                                   may be required.]
3f.   Monitoring Requirements   => other  [It may be required to measure hourly the average electrical output
                                   and the minimum and maximum generation rate.]
4d.   Averaging Time            => 24 hours
5b.   Reporting                 => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                   summarized monthly may be required.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Appendix B, 401 KAR 61:015 is included in this document at the end of the Kentucky records.
------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                        : KENTUCKY
Region                       : 4
State Regulation Citation : Title 401, Chapter 61, section 015
------------------------------------------------------------------------------------------------
Applicable Area              : Statewide
Applicable Time Frame        : Before   04/09/72
Facility Type                : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)     : Less than or equal to 250
Fuel Type                    : Liquid/gaseous fuel and solid fuel
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)               : As specified in Appendix B to 401 KAR 61:015. (1)
------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.  Test Methods             => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                  D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                  D-1826-64(70).]
2c.   Test Methods             => other testing  [The fuel burn rate and the material balance over the steam
                                  generation system.]
2d.   Test Methods             => other testing  [A performance test is required for facilities with an
                                  alternate emission rate.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required if a source does not use a flue gas
                                  desulfurization device and the emissions are monitored by fuel analysis.]
3c.   Monitoring Requirements  => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.   Monitoring Requirements  => quantity of fuel  [It may be required to be measured daily or at shorter
                                  intervals.]
3e.   Monitoring Requirements  => other  [The heating value and ash content of fuels measured at least weekly
                                  may be required.]
3f.   Monitoring Requirements  => other  [It may be required to measure hourly the average electrical output
                                  and the minimum and maximum generation rate.]
4d.   Averaging Time           => 24 hours
5b.   Reporting                => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                  summarized monthly may be required.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Appendix B, 401 KAR 61:015 is included in this document at the end of the Kentucky records.
------------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                       : KENTUCKY
Region                      : 4
State Regulation Citation : Title 401, Chapter 61, section 015
------------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Before   08/17/71
Facility Type               : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Different fuels burned simultaneously in any combination
------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Determined by proration formula (1)
------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1e.    Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.   Test Methods             => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                   D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                   D-1826-64(70).]
2c.    Test Methods             => other testing  [The fuel burn rate and the material balance over the steam
                                   generation system.]
2d.    Test Methods             => other testing  [A performance test is required for facilities with an
                                   alternate emission rate.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required if a source does not use a flue gas
                                   desulfurization device and the emissions are monitored by fuel analysis.]
3c.    Monitoring Requirements  => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.    Monitoring Requirements  => quantity of fuel  [It may be required to be measured daily or at shorter
                                   intervals.]
3e.    Monitoring Requirements  => other  [The heating value and ash content of fuels measured at least weekly
                                   may be required.]
3f.    Monitoring Requirements  => other  [It may be required to measure hourly the average electrical output
                                   and the minimum and maximum generation rate.]
4d.    Averaging Time           => 24 hours
5b.    Reporting                => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                   summarized monthly may be required.]
------------------------------------------------------------------------------------------------------
Footnotes:
(1)    Allowable Sulfur Dioxide Emission, lb/MMBtu  = y(a) + z(b) / y + z, where y is the percent of total heat
       input derived from liquid or gaseous fuel; z is the percent of total heat input derived from solid fuel;
       a is the allowable sulfur dioxide emission in pounds per million BTU heat input derived from liquid or
       gaseous fuel; and b is the allowable sulfur dioxide emissions in pounds per million BTU heat input
       derived from solid fuel.  An alternate emission rate apportioned without regard to individual affected
       facility heat input may be established by the Cabinet.
------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                       : KENTUCKY
Region                      : 4
State Regulation Citation : Title 401, Chapter 61, section 015
------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Before   04/09/72
Facility Type               : Indirect heat exchangers greater than one MMBtu/hr
Facility Size (MMBtu/hr)    : Less than or equal to 250
Fuel Type                   : Different fuels burned simultaneously in any combination
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Determined by proration formula (1)
------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1e.    Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.   Test Methods             => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                   D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                   D-1826-64(70).]
2c.    Test Methods             => other testing  [The fuel burn rate and the material balance over the steam
                                   generation system.]
2d.    Test Methods             => other testing  [A performance test is required for facilities with an
                                   alternate emission rate.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
3c.    Monitoring Requirements  => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.    Monitoring Requirements  => quantity of fuel  [It may be required to be measured daily or at shorter
                                   intervals.]
3e.    Monitoring Requirements  => other  [The heating value and ash content of fuels measured at least weekly
                                   may be required.]
3f.    Monitoring Requirements  => other  [It may be required to measure hourly the average electrical output
                                   and the minimum and maximum generation rate.]
4d.    Averaging Time           => 24 hours
5b.    Reporting                => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                   summarized monthly may be required.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Allowable Sulfur Dioxide Emission, lb/MMBtu  = y(a) + z(b) / y + z, where y is the percent of total heat
      input derived from liquid or gaseous fuel; z is the percent of total heat input derived from solid fuel;
      a is the allowable sulfur dioxide emission in pounds per million BTU heat input derived from liquid or
      gaseous fuel; and b is the allowable sulfur dioxide emissions in pounds per million BTU heat input
      derived from solid fuel.  An alternate emission rate apportioned without regard to individual affected
      facility heat input may be established by the Cabinet.
------------------------------------------------------------------------------------------------
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SO2 Regulation Report
---------------------------------------------------------------------------------------
State                      : KENTUCKY
Region                     : 4
State Regulation Citation : Title 401, Chapter 59, sections .005 and .015
---------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    04/09/72
Facility Type              : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)  : Less than or equal to 10.0
Fuel Type                  : Liquid or gaseous fuels
---------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than 3.0
---------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 1e, 2a, 2b1, 2c, 3a, 4c, 4g, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [The total rated capacity of all affected facilities within a source.
                                   A source may petition to establish an allowable emission rate which may be
                                  apportioned without regard to individaul heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required
                                  for performance evaluation of the CEMs.]
2b1.  Test Methods             => fuel testing: ASTM  [Gross calorific value by D-240-76, for liquid fuel, or
                                  by D-1826-64(70) for gaseous fuel, may be required.  Elemental analysis by
                                  D-1137-53(75), D-1945-64(73), or D-1946-67(72) may be required.]
2c.   Test Methods             => other testing  [Fuel sampling and analysis may be required in place of
                                  continuous emission monitoring if the facility does not use a FGD device.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
4c.   Averaging Time           => 3 hours
4g.   Averaging Time           => other  [Arithmetic average of three contiguous one hour periods.]
5b.   Reporting                => state regulation  [59.005.3(3); When a continuous monitoring system is
                                  required, a written report of excess emissions shall be submitted each
                                  calendar quarter.  It shall include the date, time, and magnitude of excess
                                  emissions; all hourly averages on computer tape or cards; the date, time,
                                  nature, and cause of any CEM malfunction and the corrective action or
                                  preventative measures adopted; and when no excess emissions have occurred
                                  and the CEMs have not been inoperable, a statement verifying this.  A file
                                  shall be maintained for two years of all measurements, including CEM
                                  performance testing measurements, evaluations, calibration checks,
                                  adjustments, and maintenance.]
---------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                       : KENTUCKY
Region                      : 4
State Regulation Citation : Title 401, Chapter 59, sections .005 and .015
-----------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    04/09/72
Facility Type               : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)  : Greater than 10 and less than or equal to 250
Fuel Type                   : Liquid or gaseous fuel
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 7.7223 times that quantity obtained by raising the total heat input capacity (in
                              millions of BTU per hour) to the -0.04106 power.
-----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2b1, 2c, 3a, 4c, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [The total rated capacity of all
                                   affected facilities within a source.  A source may petition to establish an
                                   allowable emission rate which may be apportioned without regard to
                                   individual heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required
                                   for performance evaluation of the CEMs.]
2b1.   Test Methods             => fuel testing: ASTM  [Gross calorific value by D-240-76, for liquid fuel, or
                                   by D-1826-64(70) for gaseous fuel, may be required. Elemental analysis by
                                   D-1137-53(75), D-1945-64(73), or D-1946-67(72) may be required.]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be required in place of CEMs
                                   if the facility does not use a FGD device.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required. It is not if natural gas is the
                                   only fuel burned.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [59.005.3(3); When a continuous monitoring system is
                                   required, a written report of excess emissions shall be submitted each
                                   calendar quarter.  It shall include the date, time, and magnitude of excess
                                   emissions; all hourly averages on computer tape or cards; the date, time,
                                   nature, and cause of any CEM malfunction and the corrective action or
                                   preventative measures adopted; and when no excess emissions have occurred
                                   and the CEMs have not been inoperable, a statement verifying this.  A file
                                   shall be maintained for two years of all measurements, including CEM
                                   performance testing measurements, evaluations, calibration checks,
                                   adjustments, and maintenance.]
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : KENTUCKY
Region                     : 4
State Regulation Citation  : Title 401, Chapter 59, sections .005 and .015
--------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    04/09/72
Facility Type              : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)   : Less than or equal to 10.0
Fuel Type                  : Solid fuel
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)               : Less than or equal to 5.0
--------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 1e, 2a, 2b1, 2c, 3a, 4c, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1e.    Heat Input Determination => other  [The total rated capacity of all affected facilities within a source.
                                    A source may petition to establish an allowable emission rate which may be
                                   apportioned without regard to individual heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required
                                   for performance evaluation of the CEMs.]
2b1.   Test Methods             => fuel testing: ASTM  [Gross calorific value by D-2015-66(72) and elemental
                                   analysis by D-3178-73 or D-3176-74 may be required.]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be required in place of CEMs
                                   if the facility does not use a FGD device.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [59.005.3(3); When a continuous monitoring system is
                                   required, a written report of excess emissions shall be submitted each
                                   calendar quarter.  It shall include the date, time, and magnitude of excess
                                   emissions; all hourly averages on computer tape or cards; the date, time,
                                   nature, and cause of any CEM malfunction and the corrective action or
                                   preventative measures adopted; and when no excess emissions have occurred
                                   and the CEMs have not been inoperable, a statement verifying this.  A file
                                   shall be maintained for two years of all measurements, including CEM
                                   performance testing measurements, evaluations, calibration checks,
                                   adjustments, and maintenance.]
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : KENTUCKY
Region                    : 4
State Regulation Citation : Title 401, Chapter 59, sections .005 and .015
------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : After    04/09/72
Facility Type             : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)  : Greater than 10 and less than or equal to 250
Fuel Type                 : Solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 13.8781 times that quantity obtained by raising the total heat input capacity (in
                            millions of BTU per hour) to the -0.4434 power.
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2a, 2b1, 2c, 3a, 4c, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [The total rated capacity of all
                                   affected facilities within a source.  A source may petition to establish an
                                   allowable emission rate which may be apportioned without regard to
                                   individual heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required
                                   for performance evaluation of the CEMs.]
2b1.   Test Methods             => fuel testing: ASTM  [Gross calorific value by D-2015-66(72) and elemental
                                   analysis by D-3178-73 or D-3176-74 may be required.]
2c.    Test Methods             => other testing  [Fuel sampling and analysis may be required in place of CEMs
                                   if the facility does not use a FGD device.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [59.005.3(3); When a continuous monitoring system is
                                   required, a written report of excess emissions shall be submitted each
                                   calendar quarter.  It shall include the date, time, and magnitude of excess
                                   emissions; all hourly averages on computer tape or cards; the date, time,
                                   nature, and cause of any CEM malfunction and the corrective action or
                                   preventative measures adopted; and when no excess emissions have occurred
                                   and the CEMs have not been inoperable, a statement verifying this.  A file
                                   shall be maintained for two years of all measurements, including CEM
                                   performance testing measurements, evaluations, calibration checks,
                                   adjustments, and maintenance.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                       : KENTUCKY
Region                      : 4
State Regulation Citation : Title 401, Chapter 59, sections .005 and .015
-------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    04/09/72
Facility Type               : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)  : Less than or equal to 250
Fuel Type                   : Different fuels burned simultaneously in any combination
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Determined by proration formula (1)
-------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 1e, 2a, 2b1, 2c, 3a, 4c, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1e.    Heat Input Determination => other  [The total rated capacity of all affected facilities within a source.
                                    A source may petition to establish an allowable emission rate which may be
                                   apportioned without regard to individual heat input.]
2a.    Test Methods              => source testing (as specified in 40 CFR Part 60)  [Method 6 may be required
                                   for performance evaluation of the CEMs.]
2b1.   Test Methods              => fuel testing: ASTM  [Gross calorific value of solid fuel by D-2015-66(72),
                                   of liquid fuel by D-240-76, and gaseous fuel by D-1826-64(70) may be
                                   required. Elemental analysis of solid fuel by D-3178-73, or D-3176-74, of
                                   liquid fuel by D-1137-53(75), and of gaseous fuel by D-1946-67(72), or
                                   D-1945-64(73) may be required.]
2c.    Test Methods              => other testing  [Fuel sampling and analysis may be required in place of CEMs
                                   if the facility does not use a FGD device.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
4c.    Averaging Time            => 3 hours
5b.    Reporting                 => state regulation  [59.005.3(3); When a continuous monitoring system is
                                   required, a written report of excess emissions shall be submitted each
                                   calendar quarter.  It shall include the date, time, and magnitude of excess
                                   emissions; all hourly averages on computer tape or cards; the date, time,
                                   nature, and cause of any CEM malfunction and the corrective action or
                                   preventative measures adopted; and when no excess emissions have occurred
                                   and the CEMs have not been inoperable, a statement verifiying this.  A file
                                   shall be maintained for two years of all measurements, including CEM
                                   performance testing measurements, evaluations, calibration checks,
                                   adjustments,and maintenance.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)    Allowable Sulfur Dioxide Emission, lb/MMBtu = y(a) + z(b) / y + z, where y is the percent of total heat
       input derived from liquid or gaseous fuel; z is the percent of total heat input derived from solid fuel;
       a is the allowable sulfur dioxide emission in pounds per million BTU heat input derived from liquid or
       gaseous fuel; and b is the allowable sulfur dioxide emissions in pounds per million BTU heat input
       derived from solid fuel.  An alternate emission rate apportioned without regard to individual affected
       facility heat input may be established by the Cabinet.
-------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : KENTUCKY
Region                     : 4
State Regulation Citation : Title 401, Chapter 61, section 015
------------------------------------------------------------------------------------------
Applicable Area            : Counties classified as VA with respect to sulfur dioxide
Applicable Time Frame      : Global   08/17/71
Facility Type              : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)   : Greater than or equal to 1500
Fuel Type                  : All fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 0.60 (1)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1e.    Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.   Test Methods             => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                   D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                   D-1826-64(70).]
2c.    Test Methods             => other testing  [The fuel burn rate and the material balance over the steam
                                   generation system.]
2d.    Test Methods             => other testing  [A performance test is required for facilities with an
                                   alternate emission rate.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required if a source does not use a flue gas
                                   desulfurization device and the emissions are monitored by fuel analysis.]
3c.    Monitoring Requirements  => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.    Monitoring Requirements  => quantity of fuel  [It may be required to be measured daily or at shorter
                                   intervals.]
3e.    Monitoring Requirements  => other  [The heating value and ash content of fuels measured at least weekly
                                   may be required.]
3f.    Monitoring Requirements  => other  [It may be required to measure hourly the average electrical output
                                   and the minimum and maximum generation rate.]
4d.    Averaging Time           => 24 hours
5b.    Reporting                => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                   summarized monthly may be required.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Limitation for the annual average SO2 emission rate from all existing and new affected facilities
      combined at the source.
------------------------------------------------------------------------------------------
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SO2 Regulation Report
--------------------------------------------------------------------------------
State                     : KENTUCKY
Region                    : 4
State Regulation Citation : Title 401, Chapter 61, section 015
--------------------------------------------------------------------------------
Applicable Area           : Counties classified as IA
Applicable Time Frame     : Global   08/17/71
Facility Type             : Indirect heat exchangers greater than one MMBtu/hr.
Facility Size (MMBtu/hr)  : Greater than or equal to 15000
Fuel Type                 : All fossil fuel
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 8.0 (1)
--------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 1e, 2a, 2b1, 2c, 2d, 3a, 3c, 3d, 3e, 3f, 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [Total rated heat input capacity of all affected facilities.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2b1.  Test Methods             => fuel testing: ASTM  [The gross calorific value of solid fuel by
                                  D-2015-66(72), of liquid fuel by D-240-64(73), and gaseous fuel by
                                  D-1826-64(70).]
2c.   Test Methods             => other testing  [The fuel burn rate and the material balance over the steam
                                  generation system.]
2d.   Test Methods             => other testing  [A performance test is required for facilities with an
                                  alternate emission rate.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required if a source does not use a flue gas
                                  desulfurization device and the emissions are monitored by fuel analysis.]
3c.   Monitoring Requirements  => sulfur content of fuel  [May be required as specified by the Cabinet.]
3d.   Monitoring Requirements  => quantity of fuel  [It may be required to be measured daily or at shorter
                                  intervals.]
3e.   Monitoring Requirements  => other  [The heating value and ash content of fuels measured at least weekly
                                  may be required.]
3f.   Monitoring Requirements  => other  [It may be required to measure hourly the average electrical output
                                  and the minimum and maximum generation rate.]
4d.   Averaging Time           => 24 hours
5b.   Reporting                => state regulation  [61.015-6(4)(5); Records of required monitoring data
                                  summarized monthly may be required.]
--------------------------------------------------------------------------------
Footnotes:
(1)   The Cabinet will allow one affected facility, as specified on the operating permit, to emit SO2 at this
      level when the facility is generating flue gases for use in any experimental SO2 removal system.
--------------------------------------------------------------------------------
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APPENDIX B
to
401 KAR 61:015
All standards are twenty-four (24) hour averages.

For sources having a total heat input (as determined by Section 3(1)) of:	The standard (in pounds per million BTU actual heat input) is (based upon the classification with respect to sulfur dioxide of the county in which the source is located):															
	CLASS I		CLASS IA		CLASS II		CLASS III		CLASS IV		CLASS IVA		CLASS V		CLASS VA	
(MM BTU/Hr.)	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel	Liquid/ Gaseous Fuel	Solid Fuel
10 or less	3.0	5.0	3.0	5.0	4.0	6.0	4.6	7.0	5.4	8.0	5.4	8.0	6.0	9.0	6.0	9.0
50	1.5	2.4	1.5	3.9	2.4	3.7	3.2	4.8	4.3	6.4	4.3	6.4	4.9	7.3	4.9	7.3
100	1.2	1.8	1.2	3.6	2.0	3.0	2.7	4.1	4.0	5.9	4.0	5.9	4.5	6.7	4.5	6.7
150	1.0	1.5	1.0	3.3	1.8	2.7	2.5	3.7	3.7	5.6	3.7	5.6	4.3	6.4	4.3	6.4
200	0.9	1.3	0.9	3.2	1.6	2.5	2.3	3.5	3.6	5.4	3.6	5.4	4.1	6.2	4.1	6.2
250-1500	0.8	1.2	0.8	3.1	1.5	2.3	2.2	3.3	3.5	5.2	3.5	5.2	4.0	6.0	4.0	6.0
greater than 1,500 but less than 21,000	0.8	1.2	0.8	1.2	1.5	2.3	2.2	3.3	3.5	5.2	2.3	3.5	4.0	6.0	1.1	1.1
21,000 or more	0.8	1.2	0.8	1.2	1.5	2.3	2.2	3.3	3.5	5.2	2.1	3.1	4.0	6.0	1.1	1.1

Interpolation of allowable emissions for rated capacity values between 10 and 250 million BTU heat input may be accomplished by use of the equation shown below for the appropriate fuel specified. In all equations Y = allowable sulfur dioxide emission in pounds per million BTU actual heat input, X = millions of BTU per hour heat input capacity rating as determined by Section 3(1).

COUNTY CLASS	FUEL	ALLOWABLE (POUNDS/MM BTU)
I	Liquid/Gaseous	Y = (7.7223)(X^-0.4106)
	Solid	Y = (13.0781)(X^-0.4434)
IA	Liquid/Gaseous	Y = (7.7223)(X^-0.4106)
	Solid	Y = (7.0302)(X^-0.1405)
II	Liquid/Gaseous	Y = (8.0601)(X^-0.3047)
	Solid	Y = (11.9134)(X^-0.2979)
III	Liquid/Gaseous	Y = (7.7966)(X^-0.2291)
	Solid	Y = (11.9872)(X^-0.2336)
IV	Liquid/Gaseous	Y = (7.3639)(X^-0.1347)
	Solid	Y = (10.0875)(X^-0.1338)
IVA	Liquid/Gaseous	Y = (7.3639)(X^-0.1347)
	Solid	Y = (10.0875)(X^-0.1338)
V	Liquid/Gaseous	Y = (8.0109)(X^-0.1260)
	Solid	Y = (12.0204)(X^-0.1260)
VA	Liquid/Gaseous	Y = (8.0109)(X^-0.1260)
	Solid	Y = (12.0204)(X^-0.1260)

An alternate emission rate apportioned without regard to individual affected facility heat input may be established by the cabinet. Such allowable emission rate shall be determined according to the following equation: F = (AB + DE) / C, where A = the allowable emission rate (in pounds per million BTU input); B = the total rated heat input (in millions of BTU per hour) of all affected facilities commenced on or after the applicable classification date within a source, including those for which an application to construct, modify, or reconstruct has been submitted to the cabinet; C = the total rated heat input (in millions of BTU per hour) of all affected facilities within a source, including those for which an application to construct, modify, or reconstruct has been submitted to the cabinet; D = the total emission rate (in pounds per million BTU input); E = the total rated heat input (in millions of BTU per hour) of all affected facilities commenced before the applicable classification date; F = the alternate allowable emission rate (in pounds per actual million BTU input).

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MISSISSIPPI
Region                     : 4
State Regulation Citation : APC-S-1, APC-S-2
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   05/11/72
Facility Type              : Fuel burning equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to the average annual emissions in 1970.
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2b4, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack analysis by EPA
                                   reference methods, if a permit requirement.]
2b4.   Test Methods             => fuel testing: other  [Fuel testing, if a permit requirement, will include
                                   percent sulfur content, percent moisture, average Btu heating value, etc.]
3e.    Monitoring Requirements  => other  [Specified in each permit.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [APC-S-2;  Records of operation and emission data at
                                   Commission's request.]
------------------------------------------------------------------------------------------
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```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                       : MISSISSIPPI
Region                      : 4
State Regulation Citation : APC-S-1, APC-S-2
--------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Modified fuel burning equipment
Facility Size (MMBtu/hr)    : Less than or equal to 250
Fuel Type                   : All fossil fuels
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.4
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b4, 3e, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods              => source testing (as specified in 40 CFR Part 60)  [Stack analysis by EPA
                                    refernece methods, if a permit requiremnt.]
2b4.   Test Methods              => fuel testing: other  [Fuel testing, if a permit requirement, will include
                                    percent sulfur content, percent moisture, average Btu heating value, etc.]
3e.    Monitoring Requirements  => other  [As specified in each permit.]
4g.    Averaging Time            => other  [Not specified.]
5b.    Reporting                 => state regulation  [APC-S-2; Records of operation and emission data at
                                    Commission's request.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MISSISSIPPI
Region                     : 4
State Regulation Citation  : APC-S-1, APC-S-2
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    05/11/72
Facility Type              : Indirect heat transfer units
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 4.8
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b4, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack analysis by EPA
                                  refernece methods, if a permit requiremnt.]
2b4.  Test Methods             => fuel testing: other  [Fuel testing, if a permit requirement, will include
                                  percent sulfur content, percent moisture, average Btu heating value, etc.]
3e.   Monitoring Requirements  => other  [As specified in each permit.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [APC-S-2; Records of operation and emission data at
                                  Commission's request.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------------------
State                      : NORTH CAROLINA
Region                     : 4
State Regulation Citation : Title 15, NCAC subchapter 2D.0500, and .0516
-------------------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Fossil fuel
-------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or eqaul to 2.3
-------------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a or 2b1, 2b4, 2c, 3a or 3c, 4g, 5b, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.  Test Methods             => fuel testing: ASTM  [Coal testing: sampling by D-2234-82, preparation by
                                  D-2013-72, gross calorific value by D-2015-85, moisture content by
                                  D-3173-85, and sulfur content by D-3177-84 or D-4239-85.  Oil testing: gross
                                  calorific value by D-240-85, and sulfur content by D-129-64.]
2b4.  Test Methods             => fuel testing: other  [Oil is sampled from the pipeline inlet to the fuel
                                  burning device after the standing fuel is drained.]
2c.   Test Methods             => other testing  [Compliance may be either by determining the sulfur content
                                  of the fuel or by stack sampling.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [SO2 emissions from facilities greater than 250
                                  MMBtu/hr that burn coal or residual oil shall be determined by CEMs or fuel
                                  analysis, or by other procedures approved of by the Director.  Regulation
                                  604(a); Appendix P of 40 CFR part 51.]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Three year calendar average.]
5b.   Reporting                => state regulation  [.0606; This regulation is applicable to facilities
                                  greater than 250 MMBtu/hr heat input that burn coal or oil.  A quarterly
                                  report of excess emissions shall include either the type and quantity of
                                  fuel burned, the BTU value, the percent sulfur, by weight, and the
                                  calculated SO2 emissions, or when CEMs are used, the emission rate in the
                                  same units as the standard, the maximum instantaneous rate, and the total
                                  SO2 emissions.  Recorder charts shall be retained at least one year.]
5e.   Reporting                => other  [Sulfur content and gross calorific value of fuel shall be reported
                                  on a dry basis.]
-------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : SOUTH CAROLINA
Region                      : 4
State Regulation Citation : No. 62.5, standard no. 1, section III
------------------------------------------------------------------------------------------
Applicable Area             : Class I (Charleston County)
Applicable Time Frame       : Global
Facility Type               : Fuel burning operations
Facility Size (MMBtu/hr)    : Less than or equal to 10
Fuel Type                   : All fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 3.5
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2c, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As required by the
                                   Department and approved of by EPA.]
2c.    Test Methods             => other testing  [Specified by permit.]
3e.    Monitoring Requirements  => other  [Compliance will be by source testing, continuous monitoring, or fuel
                                   analysis, as required by permit.]
4g.    Averaging Time           => other  [Not specified]
5e.    Reporting                => other  [Final test results must be submitted no later than thirty days after
                                   on site test completion.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                       : SOUTH CAROLINA
Region                      : 4
State Regulation Citation   : No. 62.5, standard no. 1, section III
------------------------------------------------------------------------------------------------
Applicable Area             : Class I (Charleston County)
Applicable Time Frame       : Global
Facility Type               : Fuel burning operations
Facility Size (MMBtu/hr)    : Greater than 10
Fuel Type                   : All fossil fuel
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 2.3
------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2a, 2c, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As required by the
                                   Department and approved of by EPA.]
2c.    Test Methods             => other testing  [Specified by permit.]
3e.    Monitoring Requirements  => other  [Compliance will be by source testing, continuous monitoring, or fuel
                                   analysis, as required by permit.]
4g.    Averaging Time           => other  [Not specified]
5e.    Reporting                => other  [Final test results must be submitted no later than thirty days after
                                   on site test completion.]
------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------
State                      : SOUTH CAROLINA
Region                     : 4
State Regulation Citation : No. 62.5, standard no. 1, section III
-----------------------------------------------------------------------------------------------------------
Applicable Area            : Class II (Aiken County and Anderson County)
Applicable Time Frame      : Global
Facility Type              : Fuel burning operations
Facility Size (MMBtu/hr)   : Less than 1000
Fuel Type                  : All fossil fuel
-----------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.5
-----------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a, 2c, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As required by the
                                   Department and approved of by EPA.]
2c.    Test Methods             => other testing  [Specified by permit.]
3e.    Monitoring Requirements  => other  [Compliance will be by source testing, continuous monitoring, or fuel
                                   analysis, as required by permit.]
4g.    Averaging Time           => other  [Not specified]
5e.    Reporting                => other  [Final test results must be submitted no later than thirty days after
                                   on site test completion.]
-----------------------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : SOUTH CAROLINA
Region                      : 4
State Regulation Citation : No. 62.5, standard no. 1, section III
------------------------------------------------------------------------------------------
Applicable Area             : Class II (Aiken County and Anderson County)
Applicable Time Frame       : Global
Facility Type               : Fuel burning operations
Facility Size (MMBtu/hr)    : Greater than or equal to 1000
Fuel Type                   : All fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 2.3
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [As required by the
                                  Department and approved of by EPA.]
2c.   Test Methods             => other testing  [Specified by permit.]
3e.   Monitoring Requirements  => other  [Compliance will be by source testing, continuous monitoring, or fuel
                                  analysis, as required by permit.]
4g.   Averaging Time           => other  [Not specified]
5e.   Reporting                => other  [Final test results must be submitted no later than thirty days after
                                  on site test completion.]
------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      . SOUTH CAROLINA
Region                     : 4
State Regulation Citation  : No. 62.5, standard no. 1, section III
------------------------------------------------------------------------------------------
Applicable Area            : Class III (statewide excluding Aiken County, Anderson County, and Charleston
                             County)
Applicable Time Frame      : Global
Facility Type              : Fuel burning operations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.5
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [As required by the
                                  Department and approved of by EPA.]
2c.   Test Methods             => other testing  [Specified by permit.]
3e.   Monitoring Requirements  => other  [Compliance will be by source testing, continuous monitoring, or fuel
                                  analysis, as required by permit.]
4g.   Averaging Time           => other  [Not specified]
5e.   Reporting                => other  [Final test results must be submitted no later than thirty days after
                                  on site test completion.]
------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
------------------------------------------------------------------------------------------
Applicable Area            : Class I - Polk county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)  : Less than or equal to 1000, for the entire fuel burning installation, and
                             individual units less than 600
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.6
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                   Technical Secretary, as specified in the Tennessee Department of Public
                                   Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                   amended on August 17, 1977.]
2c.    Test Methods             => other testing  [As specified by the Technical Secretary.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                   equipment; the Technical Secretary may require it of other sources.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5b.    Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                   averages for each period that the emission standard was exceeded, the date
                                   and time the CEMs were inoperative, and the repairs or corrections made to
                                   the CEMs (may require proof).  If there were no excess emissons and the CEMs
                                   have not been inoperative, repaired, or adjusted a statement verifying this
                                   is required.]
------------------------------------------------------------------------------------------
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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation  : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
--------------------------------------------------------------------------------------------
Applicable Area            : Class I - Polk county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Greater than or equal to 1000, for the entire fuel burning installation, and
                             individual units greater than 600
Fuel Type                  : All fossil fuels
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.2
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17,1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                  monitoring, when required, by method in the Federal Register, Volume 36, No.
                                  84, April 30, 1971.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                  monitoring, as prescribed by the Technical Secretary, to demonstrate
                                  attainment and maintenance of air quality standards is required for fuel
                                  burning installations having a total rated capacity greater than 1000
                                  MMBtu/hr heat input.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment larger than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the standard was exceeded, the date and time
                                  the CEMs were inoperative, and the repairs or corrections that were made to
                                  the CEMs (may require proof).  If there were no excess emissions and the
                                  CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                  this is required.]
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SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02
--------------------------------------------------------------------------------------------------
Applicable Area            : Class I - Polk county
Applicable Time Frame      : After    04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : All fossil fuels
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.6
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                   "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                   Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                   Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                   the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.    Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                   approval.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2, and 3, and the
                                   "Federal Register", Volume 40, No. 194, Appendix B.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5a.    Reporting                => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                   runs for each test method.  The arithmetic mean of the results will be used
                                   to determine compliance.  Quarterly reports made to the Technical Secretary
                                   shall include the date, time, nature, and magnitude of excess emissions; the
                                   date, time, nature, and cause of CEMs malfunction; the corrective action
                                   taken or preventative measures adopted as a result of any malfunction, or if
                                   no excess emissions have occurred, or the CEMs have not been inoperative,
                                   repaired, or adjusted, a statement verifying this.]
--------------------------------------------------------------------------------------------------
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SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02

Applicable Area : Class IIA - Maury county, Class IIB - Humphrey's county, Class VI - All counties not specifically classified, and Class VII - Roane county
Applicable Time Frame : After 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Less than or equal to 250
Fuel Type : All fossil fuels

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 5.0

Compliance Procedures :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [As specified in the "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in Volume 43, No. 57, March 23, 1978. Method 19 as specified in the "Federal Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c. Test Methods => other testing [Alternative methods may be allowed with Technical Secretary approval.]
3a. Monitoring Requirements => continuous SO2 monitoring [Performance Specification 2, and 3, and the "Federal Register", Volume 40, No. 194, Appendix B.]
3e. Monitoring Requirements => other [Alternative monitoring procedures may be used with Technical Secretary approval.]
4b. Averaging Time => 1 hour
4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment less than 600 MMBtu/hr heat input.]
5a. Reporting => specified in 40 CFR Part 60
5b. Reporting => state regulation [1200-3-16; Each performance test shall consist of three runs for each test method. The arithmetic mean of the results will be used to determine compliance. Quarterly reports made to the Technical Secretary shall include the date, time, nature, and magnitude of excess emissions; the date, time, nature, and cause of CEMs malfunction; the corrective action taken or preventative measures adopted as a result of any malfunction, or if no excess emissions have occurred, or the CEMs have not been inoperative, repaired, or adjusted, a statement verifying this.]

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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : TENNESSEE
Region                      : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
--------------------------------------------------------------------------------------------
Applicable Area             : Class IIA - Maury county, Class IIB - Humphrey's county, Class VI - All counties
                              not specifically classified, and Class VII - Roane county
Applicable Time Frame       : Before   04/03/72
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : Less than or equal to 1000, for the entire fuel burning installation, and
                              individual units less than 600
Fuel Type                   : All fossil fuels
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 5.0
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17, 1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment less than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the emission standard was exceeded, the date
                                  and time the CEMs were inoperative, and the repairs or corrections made to
                                  the CEMs (may require proof).  If there were no excess emissons and the CEMs
                                  have not been inoperative, repaired, or adjusted a statement verifying this
                                  is required.]
--------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-----------------------------------------------------------------------------------------------
Applicable Area            : Class IIA - Maury county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Greater than or equal to 1000, for the entire fuel installation, and individual
                             units greater than 600
Fuel Type                  : All fossil fuels
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.2
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17,1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                  monitoring, when required, by method in the Federal Register, Volume 36, No.
                                  84, April 30, 1971.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                  monitoring, as prescribed by the Technical Secretary, to demonstrate
                                  attainment and maintenance of air quality standards is required for fuel
                                  burning installations having a total rated capacity greater than 1000
                                  MMBtu/hr heat input.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment larger than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the standard was exceeded, the date and time
                                  the CEMs were inoperative, and the repairs or corrections that were made to
                                  the CEMs (may require proof).  If there were no excess emissions and the
                                  CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                  this is required.]
-----------------------------------------------------------------------------------------------
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SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02

Applicable Area : Class IIB - Humphrey's county
Applicable Time Frame : Before 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Greater than or equal to 1000, for the entire fuel burning installation, and individual units greater than 600
Fuel Type : All fossil fuels

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 3.4

Compliance Procedures :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [When required by the Technical Secretary, as specified in the Tennessee Department of Public Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as amended on August 17,1977.]
2c. Test Methods => other testing [As specified by the Technical Secretary. Ambient monitoring, when required, by method in the Federal Register, Volume 36, No. 84, April 30, 1971.]
3a. Monitoring Requirements => continuous SO2 monitoring [Required for fossil fuel fired steam generators greater than 250 MMBtu/hr heat input and with SO2 pollution control equipment; the Technical Secretary may require it of other sources.]
3b. Monitoring Requirements => ambient monitoring or diffusion estimate [Installation of ambient monitoring, as prescribed by the Technical Secretary, to demonstrate attainment and maintenance of air quality standards is required for fuel burning installations having a total rated capacity greater than 1000 MMBtu/hr heat input.]
3e. Monitoring Requirements => other [Alternative monitoring procedures may be used with Technical Secretary approval.]
4b. Averaging Time => 1 hour
4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment larger than 600 MMBtu/hr heat input.]
5b. Reporting => state regulation [1200-3-10.02(2); A quarterly report summarizing emission averages for each period that the standard was exceeded, the date and time the CEMs were inoperative, and the repairs or corrections that were made to the CEMs (may require proof). If there were no excess emissions and the CEMs have not been inoperative, repaired, or adjusted a statement verifying this is required.]

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-----------------------------------------------------------------------------------------------------------
Applicable Area            : Class III - Sullivan county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 1000, for the entire fuel burning installation, and
                             individual units less than 600
Fuel Type                  : All fossil fuels
-----------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.4
-----------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                   Technical Secretary, as specified in the Tennessee Department of Public
                                   Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                   amended on August 17, 1977.]
2c.    Test Methods             => other testing  [As specified by the Technical Secretary.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                   equipment; the Technical Secretary may require it of other sources.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5b.    Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                   averages for each period that the emission standard was exceeded, the date
                                   and time the CEMs were inoperative, and the repairs or corrections made to
                                   the CEMs (may require proof).  If there were no excess emissons and the CEMs
                                   have not been inoperative, repaired, or adjusted a statement verifying this
                                   is required.]
-----------------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02

Applicable Area : Class III - Sullivan county
Applicable Time Frame : Before 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Greater than or equal to 1000, for the entire fuel burning installation, and individual units greater than 600
Fuel Type : All fossil fuels

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 2.4

Compliance Procedures :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [When required by the Technical Secretary, as specified in the Tennessee Department of Public Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as amended on August 17,1977.]
2c. Test Methods => other testing [As specified by the Technical Secretary. Ambient monitoring, when required, by method in the Federal Register, Volume 36, No. 84, April 30, 1971.]
3a. Monitoring Requirements => continuous SO2 monitoring [Required for fossil fuel fired steam generators greater than 250 MMBtu/hr heat input and with SO2 pollution control equipment; the Technical Secretary may require it of other sources.]
3b. Monitoring Requirements => ambient monitoring or diffusion estimate [Installation of ambient monitoring, as prescribed by the Technical Secretary, to demonstrate attainment and maintenance of air quality standards is required for fuel burning installations having a total rated capacity greater than 1000 MMBtu/hr heat input.]
3e. Monitoring Requirements => other [Alternative monitoring procedures may be used with Technical Secretary approval.]
4b. Averaging Time => 1 hour
4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment larger than 600 MMBtu/hr heat input.]
5b. Reporting => state regulation [1200-3-10.02(2); A quarterly report summarizing emission averages for each period that the standard was exceeded, the date and time the CEMs were inoperative, and the repairs or corrections that were made to the CEMs (may require proof). If there were no excess emissions and the CEMs have not been inoperative, repaired, or adjusted a statement verifying this is required.]

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SO2 Regulation Report
------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation  : Chapter 1200-3-14-.01 and .02
------------------------------------------------------------------------------
Applicable Area            : Class III - Sullivan county
Applicable Time Frame      : After    04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.4
------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                   "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                   Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                   Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                   the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.    Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                   approval.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2, and 3, and the
                                   "Federal Register", Volume 40, No. 194, Appendix B.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5a.    Reporting                => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                   runs for each test method.  The arithmetic mean of the results will be used
                                   to determine compliance.  Quarterly reports made to the Technical Secretary
                                   shall include the date, time, nature, and magnitude of excess emissions; the
                                   date, time, nature, and cause of CEMs malfunction; the corrective action
                                   taken or preventative measures adopted as a result of any malfunction, or if
                                   no excess emissions have occurred, or the CEMs have not been inoperative,
                                   repaired, or adjusted, a statement verifying this.]
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SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                       : TENNESSEE
Region                      : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-------------------------------------------------------------------------------------------
Applicable Area             : Class IV - Shelby county
Applicable Time Frame       : Before   04/03/72
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All fossil fuels excluding No. 5 and No. 6 fuel oil and coal
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 0.5, or by equation. (1)
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17,1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                  monitoring, when required, by method in the Federal Register, Volume 36, No.
                                  84, April 30, 1971.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                  monitoring, as prescribed by the Technical Secretary, to demonstrate
                                  attainment and maintenance of air quality standards is required for fuel
                                  burning installations having a total rated capacity greater than 1000
                                  MMBtu/hr heat input.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment larger than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the standard was exceeded, the date and time
                                  the CEMs were inoperative, and the repairs or corrections that were made to
                                  the CEMs (may require proof).  If there were no excess emissions and the
                                  CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                  this is required.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs
      SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and
      solid fuels other than coal, and Z = the heat input from all other fuel.
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SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation  : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-------------------------------------------------------------------------------------------------
Applicable Area            : Class IV - Shelby county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : No. 5 and No. 6 fuel oil and solid fuel other than coal
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.7, or by equation. (1)
-------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17,1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                  monitoring, when required, by method in the Federal Register, Volume 36, No.
                                  84, April 30, 1971.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                  monitoring, as prescribed by the Technical Secretary, to demonstrate
                                  attainment and maintenance of air quality standards is required for fuel
                                  burning installations having a total rated capacity greater than 1000
                                  MMBtu/hr heat input.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment larger than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the standard was exceeded, the date and time
                                  the CEMs were inoperative, and the repairs or corrections that were made to
                                  the CEMs (may require proof).  If there were no excess emissions and the
                                  CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                  this is required.]
-------------------------------------------------------------------------------------------------
Footnotes:
(1)   Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs
      SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and
      solid fuels other than coal, and Z = the heat input from all other fuel.
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SO2 Regulation Report
-------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation  : Chapter 1200-3-14-.01 and .02, and Chapter 1200-3-16-.01 and .02
-------------------------------------------------------------------------------------
Applicable Area            : Class IV - Shelby county
Applicable Time Frame      : After    04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : No. 5 and No. 6 fuel oil and solid fuel other than coal
-------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.7, or by equation (1)
-------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                   "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                   Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                   Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                   the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.    Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                   approval.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2 and the "Federal
                                   Register", Volume 40, No. 194, Appendix B.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5a.    Reporting                => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                   runs for each test method.  The arithmetic mean of the results will be used
                                   to determine compliance.  Quarterly reports made to the Technical Secretary
                                   shall include the date, time, nature, and magnitude of excess emissions; the
                                   date, time, nature, and cause of CEMs malfunction; the corrective action
                                   taken or preventative measures adopted as a result of any malfunction, or if
                                   no excess emissions have occurred, or the CEMs have not been inoperative,
                                   repaired, or adjusted, a statement verifying this.]
-------------------------------------------------------------------------------------
Footnotes:
(1)   Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs
      SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and
      solid fuel other than coal, and Z = the heat input from all other fuel.
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SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
------------------------------------------------------------------------------------------------
Applicable Area            : Class IV - Shelby county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Coal
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 4.0, or by equation. {1}
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                   Technical Secretary, as specified in the Tennessee Department of Public
                                   Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                   amended on August 17,1977.]
2c.    Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                   monitoring, when required, by method in the Federal Register, Volume 36, No.
                                   84, April 30, 1971.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                   equipment; the Technical Secretary may require it of other sources.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                   monitoring, as prescribed by the Technical Secretary, to demonstrate
                                   attainment and maintenance of air quality standards is required for fuel
                                   burning installations having a total rated capacity greater than 1000
                                   MMBtu/hr heat input.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment larger than 600 MMBtu/hr heat input.]
5b.    Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                   averages for each period that the standard was exceeded, the date and time
                                   the CEMs were inoperative, and the repairs or corrections that were made to
                                   the CEMs (may require proof).  If there were no excess emissions and the
                                   CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                   this is required.]
------------------------------------------------------------------------------------------------
Footnotes:
{1}    Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs
       SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and
       solid fuels other than coal, and Z = the heat input from all other fuel.
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02, and Chapter 1200-3-16-.01 and .02
------------------------------------------------------------------------------------------
Applicable Area            : Class IV - Shelby county
Applicable Time Frame      : After    04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : Coal
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 4.0, or by equation (1)
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                  "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                  Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                  Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                  the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.   Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                  approval.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2 and the "Federal
                                  Register", Volume 40, No. 194, Appendix B.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment less than 600 MMBtu/hr heat input.]
5a.   Reporting                => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                  runs for each test method.  The arithmetic mean of the results will be used
                                  to determine compliance.  Quarterly reports made to the Technical Secretary
                                  shall include the date, time, nature, and magnitude of excess emissions; the
                                  date, time, nature, and cause of CEMs malfunction; the corrective action
                                  taken or preventative measures adopted as a result of any malfunction, or if
                                  no excess emissions have occurred, or the CEMs have not been inoperative,
                                  repaired, or adjusted, a statement verifying this.]
------------------------------------------------------------------------------------------
Footnotes:
(1)    Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs
       SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and
       solid fuel other than coal, and Z = the heat input from all other fuel.
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SO2 Regulation Report

State : TENNESSEE

Region : 4

State Regulation Citation : Chapter 1200-3-14-.01 and .02, and Chapter 1200-3-16-.01 and .02

Applicable Area : Class IV - Shelby county

Applicable Time Frame : After 04/03/72

Facility Type : Fuel burning installations

Facility Size (MMBtu/hr) : Less than or equal to 250

Fuel Type : All other fossil fuel

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 0.5, or by equation (1)

Compliance Procedures :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b

1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]

2a. Test Methods => source testing (as specified in 40 CFR Part 60) [As specified in the "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in Volume 43, No. 57, March 23, 1978. Method 19 as specified in the "Federal Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in the "Federal Register", Volume 44, No. 176, September 10, 1979.]

2c. Test Methods => other testing [Alternative methods may be allowed with Technical Secretary approval.]

3a. Monitoring Requirements => continuous SO2 monitoring [Performance Specification 2 and the "Federal Register", Volume 40, No. 194, Appendix B.]

3e. Monitoring Requirements => other [Alternative monitoring procedures may be used with Technical Secretary approval.]

4b. Averaging Time => 1 hour

4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment less than 600 MMBtu/hr heat input.]

5a. Reporting => specified in 40 CFR Part 60

5b. Reporting => state regulation [1200-3-16; Each performance test shall consist of three runs for each test method. The arithmetic mean of the results will be used to determine compliance. Quarterly reports made to the Technical Secretary shall include the date, time, nature, and magnitude of excess emissions; the date, time, nature, and cause of CEMs malfunction; the corrective action taken or preventative measures adopted as a result of any malfunction, or if no excess emissions have occurred, or the CEMs have not been inoperative, repaired, or adjusted, a statement verifying this.]

Footnotes:

(1) Q SO2 = 4.0X + 2.7Y + 0.5Z / X + Y + Z, when Q SO2 = the allowable sulfur dioxide emissions in lbs SO2/10^6 BTU, and X = the heat input from coal, and Y = the heat input from No. 5 or No. 6 fuel oil and solid fuel other than coal, and Z = the heat input from all other fuel.

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SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
----------------------------------------------------------------------------------------------------
Applicable Area            : Class V - Anderson, Davidson, Hamilton, Hawkins, Knox, and Rhea counties
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 1000, for the entire fuel burning installation, and
                             individual units less than 600
Fuel Type                  : All fossil fuels
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 4.0
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                   Technical Secretary, as specified in the Tennessee Department of Public
                                   Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                   amended on August 17, 1977.]
2c.    Test Methods             => other testing  [As specified by the Technical Secretary.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                   equipment; the Technical Secretary may require it of other sources.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment less than 600 MMBtu/hr heat input.]
5b.    Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                   averages for each period that the emission standard was exceeded, the date
                                   and time the CEMs were inoperative, and the repairs or corrections made to
                                   the CEMs (may require proof).  If there were no excess emissons and the CEMs
                                   have not been inoperative, repaired, or adjusted a statement verifying this
                                   is required.]
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SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02

Applicable Area : Class V - Anderson, Davidson, Hamilton, Hawkins, Knox, and Rhea counties
Applicable Time Frame : Before 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Greater than or equal to 1000, for the entire fuel burning installation, and individual units greater then 600
Fuel Type : All fossil fuels

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 4.0

Compliance Procedures :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b

1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]

2a. Test Methods => source testing (as specified in 40 CFR Part 60) [When required by the Technical Secretary, as specified in the Tennessee Department of Public Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as amended on August 17,1977.]

2c. Test Methods => other testing [As specified by the Technical Secretary. Ambient monitoring, when required, by method in the Federal Register, Volume 36, No. 84, April 30, 1971.]

3a. Monitoring Requirements => continuous SO2 monitoring [Required for fossil fuel fired steam generators greater than 250 MMBtu/hr heat input and with SO2 pollution control equipment; the Technical Secretary may require it of other sources.]

3b. Monitoring Requirements => ambient monitoring or diffusion estimate [Installation of ambient monitoring, as prescribed by the Technical Secretary, to demonstrate attainment and maintenance of air quality standards is required for fuel burning installations having a total rated capacity greater than 1000 MMBtu/hr heat input.]

3e. Monitoring Requirements => other [Alternative monitoring procedures may be used with Technical Secretary approval.]

4b. Averaging Time => 1 hour

4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment larger than 600 MMBtu/hr heat input.]

5b. Reporting => state regulation [1200-3-10.02(2); A quarterly report summarizing emission averages for each period that the standard was exceeded, the date and time the CEMs were inoperative, and the repairs or corrections that were made to the CEMs (may require proof). If there were no excess emissions and the CEMs have not been inoperative, repaired, or adjusted a statement verifying this is required.]

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-----------------------------------------------------------------------------------------------------------------
Applicable Area            : Class VI - All counties not specifically classified.
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Greater than or equal to 1000, for the entire fuel burning installation, and
                             individual units greater than 600
Fuel Type                  : All fossil fuels
-----------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 5.0
-----------------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                   The heat value of the fuel not released within the fuel burning equipment
                                   shall not be considered as part of the heat input.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                   Technical Secretary, as specified in the Tennessee Department of Public
                                   Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                   amended on August 17,1977.]
2c.    Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                   monitoring, when required, by method in the Federal Register, Volume 36, No.
                                   84, April 30, 1971.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                   equipment; the Technical Secretary may require it of other sources.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                   monitoring, as prescribed by the Technical Secretary, to demonstrate
                                   attainment and maintenance of air quality standards is required for fuel
                                   burning installations having a total rated capacity greater than 1000
                                   MMBtu/hr heat input.]
3e.    Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                   Secretary approval.]
4b.    Averaging Time           => 1 hour
4d.    Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                   equipment larger than 600 MMBtu/hr heat input.]
5b.    Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                   averages for each period that the standard was exceeded, the date and time
                                   the CEMs were inoperative, and the repairs or corrections that were made to
                                   the CEMs (may require proof).  If there were no excess emissions and the
                                   CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                   this is required.]
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SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02
----------------------------------------------------------------------------------------------
Applicable Area            : Class V - Anderson, Davidson, Hamilton, Hawkins, Knox, and Rhea counties
Applicable Time Frame      : After    04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : All fossil fuels
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 4.0
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                  "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                  Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                  Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                  the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.   Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                  approval.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2, and 3, and the
                                  "Federal Register", Volume 40, No. 194, Appendix B.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment less than 600 MMBtu/hr heat input.]
5a.   Reporting                => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                  runs for each test method.  The arithmetic mean of the results will be used
                                  to determine compliance.  Quarterly reports made to the Technical Secretary
                                  shall include the date, time, nature, and magnitude of excess emissions; the
                                  date, time, nature, and cause of CEMs malfunction; the corrective action
                                  taken or preventative measures adopted as a result of any malfunction, or if
                                  no excess emissions have occurred, or the CEMs have not been inoperative,
                                  repaired, or adjusted, a statement verifying this.]
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SO2 Regulation Report

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-----------------------------------------------------------------------------------------------
State                      : TENNESSEE
Region                     : 4
State Regulation Citation  : Chapter 1200-3-10-.01 and .02, and Chapter 1200-3-14-.01 and .02
-----------------------------------------------------------------------------------------------
Applicable Area            : Class VII - Roane county
Applicable Time Frame      : Before   04/03/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Greater than or equal to 1000, for the entire fuel burning installation, and
                             individual units greater than 600
Fuel Type                  : All fossil fuels
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.8
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 3b or 3e, 4b or 4d, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [When required by the
                                  Technical Secretary, as specified in the Tennessee Department of Public
                                  Health January 1975 edition of the "Source Sampling Manual", Chapter 3, as
                                  amended on August 17,1977.]
2c.   Test Methods             => other testing  [As specified by the Technical Secretary.  Ambient
                                  monitoring, when required, by method in the Federal Register, Volume 36, No.
                                  84, April 30, 1971.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  greater than 250 MMBtu/hr heat input and with SO2 pollution control
                                  equipment; the Technical Secretary may require it of other sources.]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate  [Installation of ambient
                                  monitoring, as prescribed by the Technical Secretary, to demonstrate
                                  attainment and maintenance of air quality standards is required for fuel
                                  burning installations having a total rated capacity greater than 1000
                                  MMBtu/hr heat input.]
3e.   Monitoring Requirements  => other  [Alternative monitoring procedures may be used with Technical
                                  Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment larger than 600 MMBtu/hr heat input.]
5b.   Reporting                => state regulation  [1200-3-10.02(2); A quarterly report summarizing emission
                                  averages for each period that the standard was exceeded, the date and time
                                  the CEMs were inoperative, and the repairs or corrections that were made to
                                  the CEMs (may require proof).  If there were no excess emissions and the
                                  CEMs have not been inoperative, repaired, or adjusted a statement verifying
                                  this is required.]
-----------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02

Applicable Area : Statewide
Applicable Time Frame : After 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Greater than 250
Fuel Type : Liquid fossil fuel

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 0.80

Compliance Procedures :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [As specified in the "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in Volume 43, No. 57, March 23, 1978. Method 19 as specified in the "Federal Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c. Test Methods => other testing [Alternative methods may be allowed with Technical Secretary approval.]
3a. Monitoring Requirements => continuous SO2 monitoring [Performance Specification 2, and 3, and the "Federal Register", Volume 40, No. 194, Appendix B.]
3e. Monitoring Requirements => other [Installation of ambient monitoring as prescribed by the Technical Secretary to demonstrate attainment and maintentance of air quality standards is required for fuel burning installations having a total rated capacity greater than 1000 MMBtu/hr heat input. Alternative monitoring procedures may be used with Technical Secretary approval.]
4b. Averaging Time => 1 hour
4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment less than 600 MMBtu/hr heat input.]
5a. Reporting => specified in 40 CFR Part 60
5b. Reporting => state regulation [1200-3-16; Each performance test shall consist of three runs for each test method. The arithmetic mean of the results will be used to determine compliance. Quarterly reports made to the Technical Secretary shall include the date, time, nature, and magnitude of excess emissions; the date, time, nature, and cause of CEMs malfunction; the corrective action taken or preventative measures adopted as a result of any malfunction, or if no excess emissions have occurred, or the CEMs have not been inoperative, repaired, or adjusted, a statement verifying this.]

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------------------
State                     : TENNESSEE
Region                    : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02
--------------------------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : After    04/03/72
Facility Type             : Fuel burning installations
Facility Size (MMBtu/hr)  : Greater than 250
Fuel Type                 : Solid fossil fuel
--------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 1.20
--------------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)  [Based on the maximum rated capacity.
                                  The heat value of the fuel not released within the fuel burning equipment
                                  shall not be considered as part of the heat input.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [As specified in the
                                  "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in
                                  Volume 43, No. 57, March 23, 1978.  Method 19 as specified in the "Federal
                                  Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in
                                  the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c.   Test Methods             => other testing  [Alternative methods may be allowed with Technical Secretary
                                  approval.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Performance Specification 2, and 3, and the
                                  "Federal Register", Volume 40, No. 194, Appendix B.]
3e.   Monitoring Requirements  => other  [Installation of ambient monitoring as prescribed by the Technical
                                  Secretary to demonstrate attainment and maintentance of air quality
                                  standards is required for fuel burning installations having a total rated
                                  capacity greater than 1000 MMBtu/hr heat input.  Alternative monitoring
                                  procedures may be used with Technical Secretary approval.]
4b.   Averaging Time           => 1 hour
4d.   Averaging Time           => 24 hours  [Required only for fuel burning installations containing units of
                                  equipment less than 600 MMBtu/hr heat input.]
5a.   Reporting                => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [1200-3-16; Each performance test shall consist of three
                                  runs for each test method.  The arithmetic mean of the results will be used
                                  to determine compliance.  Quarterly reports made to the Technical Secretary
                                  shall include the date, time, nature, and magnitude of excess emissions; the
                                  date, time, nature, and cause of CEMs malfunction; the corrective action
                                  taken or preventative measures adopted as a result of any malfunction, or if
                                  no excess emissions have occurred, or the CEMs have not been inoperative,
                                  repaired, or adjusted, a statement verifying this.]
--------------------------------------------------------------------------------------------------------------
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SO2 Regulation Report

State : TENNESSEE
Region : 4
State Regulation Citation : Chapter 1200-3-14-.01 and .02

Applicable Area : Statewide
Applicable Time Frame : After 04/03/72
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : Greater than 250
Fuel Type : Different fossil fuels burned simultaneously.

Emissions Limits:
(lb SO2/MMBtu) : By equation (1)

Compliance Procedures :: 1c, 2a, 2c, 3a or 3e, 4b or 4d, 5a, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr) [Based on the maximum rated capacity. The heat value of the fuel not released within the fuel burning equipment shall not be considered as part of the heat input.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [As specified in the "Federal Register", Volume 42, No. 160, August 18, 1977, and amended in Volume 43, No. 57, March 23, 1978. Method 19 as specified in the "Federal Register", Volume 44, No. 113, June 11, 1979, and Method 20 as specified in the "Federal Register", Volume 44, No. 176, September 10, 1979.]
2c. Test Methods => other testing [Alternative methods may be used with Technical Secretary approval.]
3a. Monitoring Requirements => continuous SO2 monitoring [Performance Specification 2, and 3, and the "Federal Register", Volume 40, No. 194, Appendix B.]
3e. Monitoring Requirements => other [Installation of ambient monitoring as prescribed by the Technical Secretary to demonstrate attainment and maintentance of air quality standards is required for fuel burning installations having a total rated capacity greater than 1000 MMBtu/hr heat input. Alternative monitoring procedures may be used with Technical Secretary approval.]
4b. Averaging Time => 1 hour
4d. Averaging Time => 24 hours [Required only for fuel burning installations containing units of equipment less than 600 MMBtu/hr heat input.]
5a. Reporting => specified in 40 CFR Part 60
5b. Reporting => state regulation [1200-3-16; Each performance test shall consist of three runs for each test method. The arithmetic mean of the results will be used to determine compliance. Quarterly reports made to the Technical Secretary shall include the date, time, nature, and magnitude of excess emissions; the date, time, nature, and cause of CEMs malfunction; the corrective action taken or preventative measures adopted as a result of any malfunction, or if no excess emissions have occurred, or the CEMs have not been inoperative, repaired, or adjusted, a statement verifying this.]

Footnotes:

(1) $Y (0.80) + Z (1.2) / Y + Z$, when Y is the percent of the total heat input derived from liquid fossil fuel and Z is the percent of the total heat input derived from solid fossil fuel.

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SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   08/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Residual fuel oil (No.4, 5, 6)
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.0 (1)
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                  measurement procedures specified by Illimois EPA.]
2b1.  Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                  D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                  shall be determined with a two month average of daily samples with
                                  ninety-five percent of the samples being less than twenty percent above the
                                  average.]
2c.   Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                  Barium-thorin titration.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                  heat input or without SO2 control equipment.]
3e.   Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                  all activities pursuant to 1) any compliance program and schedule, 2) all
                                  malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                  other records the Agency may require.  As a minimum, yearly reports shall be
                                  submitted detailing the nature, specific sources, and total quantities of
                                  emissions. The agency shall sat forth the format for these reports.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Installations may petition for up to 6.8 lb SO2/MMBtu in major metropolitan areas if NAAQS or PSD
      increments are not exceeded.
-----------------------------------------------------------------------------------------
```

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SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation : Chapter 1, parts 201 and 214
---------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    05/31/72
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : Residual fuel oil (No. 4, 5, 6)
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.0
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2b1 or 2c, 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily damples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
---------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    05/31/72
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Residual fuel oil (No.4, 5, 6)
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 0.8
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                  measurement procedures specified by the Illinois EPA.]
2b1.  Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                  D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                  shall be determined with a two month average of daily samples with
                                  ninety-five percent of the samples being less than twenty percent above the
                                  average.]
2c.   Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                  Barium-thorin titration.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources without SO2 control
                                  equipment.]
3e.   Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                  all activites pursuant to 1) any compliance program and schedule, 2) all
                                  malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                  other records the Agency may require.  As a minimum, yearly reports shall be
                                  submitted detailing the nature, specific sources, and total quantities of
                                  emissions. The agency shall set forth the format for the these reports.]
-----------------------------------------------------------------------------------------
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SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
--------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Less than 250
Fuel Type                  : Distillate fuel oil (No.1 and 2)
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.3 (1)
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                  measurement procedures specified by Illinois EPA.]
2b1.  Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                  D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfurr
                                  content shall be determined with a two month average of daily samples with
                                  ninety-five percent of the samples being less than twenty percent above the
                                  average.]
2c.   Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                  Barium-thorin titration.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                  heat input or without SO2 pollution control equipment.]
3e.   Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                  all activities pursuant to 1) any compliance program and schedule, 2) all
                                  malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                  other records the Agency may require.  As a minimum, yearly reports shall be
                                  submitted detailing the nature, specific sources, and total quantities of
                                  emissions. The agency shall set forth the format for these reports.]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   Installations may petition for up to 6.8 lb SO2/MMBtu in major metropolitan areas if NAAQS or PSD
      increments are not exceeded.
--------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : ILLINOIS
Region                      : 5
State Regulation Citation   : Chapter 1,parts 201 and 214
-----------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    05/31/72
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : Greater than 250
Fuel Type                   : Distillate fuel oil (Nos. 1 and 2)
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 0.3
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources without SO2 control
                                   equipment or with alternative monitoring procedures.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requiremtns as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301, and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a mimimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reprots.]
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    05/31/72
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Solid
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.2
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources without SO2 control
                                   equipment or with alternative monitoring procedures.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301, and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : ILLINOIS
Region                    : 5
State Regulation Citation : Chapter 1, parts 201 and 214
------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : After    05/31/72
Facility Type             : Fuel burning installation
Facility Size (MMBtu/hr)  : Less than or equal to 250
Fuel Type                 : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 1.8
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1a, 2a or 2b1 or 2c, 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-fuve percent of the samples being less than twenty percent above the
                                   average. This does not apply to sources in Hollis Township.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requiremetns as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301 and .302; Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
--------------------------------------------------------------------------------------------------
Applicable Area            : Nonmajor metropolitan areas located outside of Chicago, St. Louis (IL), or Peoria
Applicable Time Frame      : Before   05/31/72
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Greater than 250
Fuel Type                  : Solid
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : General formula, special formula, or alternative emission rate (1)
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources without SO2 control
                                   equipment or alternative monitoring procedures.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301, and .302; Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   These formulas are included in this data base at the end of the Illinois reports.
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```

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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
------------------------------------------------------------------------------------------
Applicable Area            : Chicago, St. Louis and Peoria major metropolitan areas
Applicable Time Frame      : Before   05/31/72
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.8 (1)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                   heat input or without SO2 pollution controls.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Sources in Peoria metropolitan areas without flue-gas desulfurization systems as of 12/01/80  are
      limited to 5.5 lb SO2/MMBtu, if stack height > 154 ft. Installations may petition for approval of up to
      6.8 lb SO2/MMBtu if NAAQS or PSD increment is not exceeded.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
-----------------------------------------------------------------------------------------
Applicable Area            : Areas outside of the Chicago, St. Louis (IL), and Peoria major metropolitan areas
Applicable Time Frame      : Before   05/31/72
Facility Type              : Fuel burning installations in primary and secondary metal manufacturing facilities
Facility Size (MMBtu/hr)   : Less than or equal to 250
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 6.8, or by general formula, special formula, or alternative
                             emission rate. (1)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2b1 or 2c, 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301, and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a miniumum, yearly reports shall
                                   be submitted detailing the nature, specific sources, and total quantities of
                                   emissions.  The agency shall set forth the format for these reports.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   These formulas are included in this data base at the end of the Illinois reports.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 204
----------------------------------------------------------------------------------------------
Applicable Area            : Kankakee or McHenry Counties
Applicable Time Frame      : Before   05/31/72
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 6.8
----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurment procedures specified by Illinois EPA.]
2b1.   Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                   D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                   shall be determined with a two month average of daily samples with
                                   ninety-five percent of the samples being less than twenty percent above the
                                   average.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                   heat input capacity or without SO2 control equipment or with alternative
                                   monitoring procedures.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301, and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
--------------------------------------------------------------------------------
Applicable Area            : Hollis Township in Peoria County as defined on 12/1/80
Applicable Time Frame      : Before   12/01/80
Facility Type              : Fuel combustion facilities
Facility Size (MMBtu/hr)   : Greater than 125
Fuel Type                  : Solid fuel
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.1
--------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a or 3e, 4b, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                  measurement procedures specified by Illinois EPA.]
2c.   Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                  Barium-thorin titration.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                  heat input, or sources without SO2 controls, or with alternative monitoring
                                  procedures.]
3e.   Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                  all activities pursuant to 1) any compliance program and schedule, 2) all
                                  malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                  other records the Agency may require.  As a minimum, yearly reports shall be
                                  submitted detailing the nature, specific sources, and total quantities of
                                  emissions. The agency shall set forth the format for these reports.]
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : ILLINOIS
Region                     : 5
State Regulation Citation  : Chapter 1, parts 201 and 214
----------------------------------------------------------------------------------------------
Applicable Area            : City of East Peoria, as defined on 12/01/80
Applicable Time Frame      : Before   12/01/80
Facility Type              : Fuel combustion facilities with flue gas desulfurization system
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.4
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a or 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                   measurement procedures specified by Illinois EPA.]
2c.    Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                   Barium-thorin titration.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250 MMBtu/hr
                                   heat input, or sources without SO2 controls, or with alternative monitoring
                                   procedures.]
3e.    Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                   all activities pursuant to 1) any compliance program and schedule, 2) all
                                   malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                   other records the Agency may require.  As a minimum, yearly reports shall be
                                   submitted detailing the nature, specific sources, and total quantities of
                                   emissions. The agency shall set forth the format for these reports.]
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------
State                     : ILLINOIS
Region                    : 5
State Regulation Citation : Chapter 1, parts 201 and 214
----------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Before  05/31/72
Facility Type             : Fuel burning installation
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Combination of solid, liquid, and gaseous fuels burned simultaneously
----------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Calculated by equation (1)
----------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2b1 or 2c, 3a or 3e, 4b, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6, or by other
                                  measurement procedures specified by Illinois EPA.]
2b1.  Test Methods             => fuel testing: ASTM  [Sampling by D-2234, and D-2013, sulfur content by
                                  D-3177, and D-2622, and heating value by D-2015, and D-3286.  Sulfur content
                                  shall be determined with a two monthe average of daily samples with
                                  ninety-five percent of the samples being less than twenty percent above the
                                  average.]
2c.   Test Methods             => other testing  [Sulfuric acid mist and sulfur trioxide by Method 8,
                                  Barium-thorin titration.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Not required for sources less than 250MMBtu/hr
                                  heat input or without SO2 control equipment.]
3e.   Monitoring Requirements  => other  [Alternative monitoring requirements as specified in each permit.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [201.301 and .302;  Records shall be maintained detailing
                                  all activities pursuant to 1) any compliance program and schedule, 2) all
                                  malfunctions, breakdowns, or startups, 3) monitoring and testing, and any
                                  other records the Agency may require.  As a minimum, yearly reports shall be
                                  submitted detailing the nature, specific sources, and total quantities of
                                  emissions. The agency shall set forth the format for these reports.]
----------------------------------------------------------------------------------
Footnotes:
(1)   E = AX + BY + CZ, where E = the allowable SO2 emission rate, and A = the applicable solid fuel SO2
      emission standard, and B = the distillate fuel emission standard determined from the metric or english
      unit table at the end of the Illinois regualtions, and C = the applicable residual fuel oil SO2 emission
      standard, and X = the actual heat input from solid fuel, and Y = the actual heat input from distillate
      fuel, and Z = the actual heat input from residual fuel. That portion of the actual heat input that is
      derived from the burning of gaseous fuels produced by the gasification of 1) solid fuel shall be
      included in X; 2) distillate fuel shall be included in Y; 3) residual fuel and any other liquid fuel
      shall be included in Z; and from the burning of by-product gases such as those produced from a blast
      furnace or a catalyst regeneration unit shall be included in Z. Installations may petition for up to 6.8
      lb SO2/MMBtu in major metropolitan areas if NAAQS or PSD increments are not exceeded.
----------------------------------------------------------------------------------
```

Section 214.183 General Formula.

(a) The general formula is:

$$E = A X^{B} Y^{C}$$

(b) Symbols used in the general formula mean the following:

E = Total allowable emission of sulfur dioxide into the atmosphere in any one-hour period from all fuel combustion emission sources owned or operated by such person and located within a 1.6 km (1 mile) radius from the center point of any such emission source.

X = Average actual stack height as determined by method outlined in Appendix C.

Y = Effective height of effluent release as determined by method outlined in Appendix C.

(c) The general formula may be used with either metric or English units as follows:

Parameter	*Metric*	*English*
E	kg/hr	lbs/hr
X, Y	m	ft
A	0.04347 kg/hr	0.007813 lbs/hr
B	0.11	0.11
C	2	2

Section 214.184 Special Formula

(a) If the maximum total emissions of sulfur dioxide into the atmosphere in any one hour period from all fuel combustion emission sources owned or operated by any person and located within a 1 mile (1.6 km) radius from the center point of any such fuel combustion emission sources exceed, during normal cyclical variations in firing rate and fuel, the emissions allowed under Section 214.183 but, as of April 1, 1978, were in compliance with either the formula detailed below or a Pollution Control Board (Board) order, then the owner or operator of the emission sources shall not cause or allow such emissions to exceed the emissions allowed under Section 214.183 or the formula detailed below, whichever the owner or operator of the emission sources determines shall apply.

$$E = 0.2222^{2}$$

$$H = P_1H_1 + P_2H_2 + \ldots P_nH_n$$

$$(\text{Note: } P_1 + P_2 \ldots P_n = 1)$$

(c) As used in these equations, symbols mean the following:

E = total emission of sulfur dioxide, in pounds per hour, into the atmosphere in any one hour period from all fuel combustion emission sources owned or operated by such person and located within a 1 mile radius from the center point of any such emission source;

P_i, $i = 1, 2, \ldots, n$ = percentage of total emissions E emitted from source i divided by 100, and

H_i, $i = 1, 2, \ldots, n$ = physical height in feet above grade of stack i.

Appendix C

Method used to Determine Average Actual Stack Height and Effective Height of Effluent Release

Q (Btu/sec) = Heat emission rate as determined by method outlined below.

H (feet) = Plume rise.

H = Physical height in feet, above grade of each stack, except that for purposes of this calculation the value used for such stack height shall not exceed good engineering practice as defined by Section 123 of the Clean Air Act and Regulations promulgated thereunder, unless the owner or operator of the source demonstrates to the Agency that a greater height is necessary to prevent downwash or fumigation conditions.

T (Degrees Rankine) = Exit temperature of stack gases from each source during operating conditions which would cause maximum emissions.

V (feet/sec) = Exit velocity of stack gases from each source under operating conditions which would cause maximum emissions.

D (feet) = Diameter of stack.

P = Percentage of total emissions expressed as decimal equivalents emitted from each source. Example: 21% = 0.21. NOTE: The sum of $P_1 + P_2 \ldots = P_n = 1$. The emission values to be used are those which occur during operating conditions which would cause maximum emissions.

X = Average actual stack height.

Y = Effective height of effluent release.

STEP 1: Determine weighted average stack parameters utilizing the following formulae:

$$D = P_1D_1 + P_2D_2 + \ldots + P_nD_n$$

$$V = P_1V_1 + P_2V_2 + \ldots + P_nV_n$$

$$T = P_1T_1 + P_2T_2 + \ldots + P_nT_n$$

$$X = P_1H_1 + P_2H_2 + \ldots + P_nH_n$$

NOTE: P1, D1, V1, T1, and H1 are the percentage of total emissions, stack diameter, exit velocity of gases, exit temperature of stack gases, and physical stack height, respectively, for the first source; P2, D2, V2, T2, and H2 are the respective values for the second source; similarly, Pn, Dn, Vn, Tn and Hn are the respective values for the nth source, where n is the number of the last source.

STEP 2: Calculate heat emission rate utilizing the following formula and the weighted average stack parameters obtained in Step 1:

$$Q = 7.54D2V \left(\frac{T - 515}{T}\right)$$

STEP 3: Calculate plume rise utilizing the appropriate formula given below and the total heat emission rate obtained in Step 2:

$$H = \frac{2.58\ (Q)^{0.6}}{(X)0.11} \quad \text{for Q} \quad 6000 \text{ btu/sec.}$$

$$H = \frac{0.718\ (Q)^{0.75}}{(X)0.11} \quad \text{for Q} \quad 6000 \text{ btu/sec.}$$

STEP 4: Calculate the weighted average facility effective height of effluent release utilizing the plume rise obtained in Step 3, the average stack height obtained in Sept 1 and the formula given below:

$$Y = X + H$$

STEP 5: Calculate the total facility hourly emission limitation utilizing the weighted actual stack height obtained in Step 1, the effective stack height given in Step 4, and the following formula:

$$E = \frac{(X)^{0.11}\ (Y)^{2}}{128}$$

SO2 Regulation Report

State : INDIANA
Region : 5
State Regulation Citation : Indiana Administrative Code, Title 326, Article 7

Applicable Area : Statewide
Applicable Time Frame : Before 08/17/71
Facility Type : Fuel burning installation
Facility Size (MMBtu/hr) : All (1)
Fuel Type : All

Emissions Limits:
(lb SO2/MMBtu) : 6.0 (2)

Compliance Procedures :: 1e, 2a, 3b, 3c, 4g, 5b
1e. Heat Input Determination => other [Not determined]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Method 6]
3b. Monitoring Requirements => ambient monitoring or diffusion estimate [For >500 MMBtu.]
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [30-day rolling average for >1500 MMBtu, calendar month average for others.]
5b. Reporting => state regulation [For sources >1500 MMBtu/hr quarterly reports stating average emission rates are required. For sources >10 and <1500 MMBtu/hr quarterly reports giving average sulfur content, heat content, SO2 emission rate and coal consumption are required. Sources <10 MMBtu/hr must submit reports upon request.]

Footnotes:
(1) > 25 tons SO2/yr or 10 lb SO2/hr
(2) Unless it can be demonstrated that an exceedance would not affect a violation of the NAAQS or PSD increments. Refer to 326 IAC 7-1-8 through 7-1-19 for specific facility emission limits in the counties of: Lake, Marion, Vigo, Wayne, Laporte, Jefferson, Sullivan, Vermillion, Floyd, Morgan, and Gibson.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : INDIANA
Region                     : 5
State Regulation Citation : Indiana Administrative Code, Title 326, Article 7
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    08/17/71
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Liquid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 3a, 4a, 5a
1e.   Heat Input Determination => other  [Not determined]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : INDIANA
Region                     : 5
State Regulation Citation : Indiana Administrative Code, Title 326, Article 7
--------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    08/17/71
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Solid
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
--------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 3a, 4a, 5a
1e.   Heat Input Determination => other  [Not determined]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : MICHIGAN
Region                     : 5
State Regulation Citation : Michigan Air Pollution Laws, Chapter 336, Part 4
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Steam or Electric Generating Facility.
Facility Size (MMBtu/hr)   : Less than or equal to 9,000 (1)
Fuel Type                  : liquid
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.5
(ppm SO2)                  : 630
(lb SO2/MMBtu)             : 1.67
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 4a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [As approved by Commission.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [For sources >250 MMBtu/hr and with SO2 control
                                   equipment.]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required stating emission averages
                                   for each period during which the standard is exceeded and giving information
                                   on periods during which the monitoring equipment is inoperative.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)    Calculated on the basis of 18,000 Btu/lb.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : MICHIGAN
Region                     : 5
State Regulation Citation  : Michigan Air Pollution Laws, Chapter 336, Part 4
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Steam or Electric Generating Facility
Facility Size (MMBtu/hr)   : Greater than 9,000 (1)
Fuel Type                  : liquid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0
(ppm SO2)                  : 420
(lb SO2/MMBtu)             : 1.11
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 2c, 3a, 4a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [As approved by Commission.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For sources >250 MMBtu/hr and with SO2 control
                                  equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Quarterly reports are required stating emission averages
                                  for each period during which the standard is exceeded and giving information
                                  on periods during which the monitoring equipment is inoperative.]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)   Calculated on the basis of 18,000 Btu/lb.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : MICHIGAN
Region                     : 5
State Regulation Citation : Michigan Air Pollution Laws, Chapter 336, Part 4
---------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global   11/11/11
Facility Type              : Steam or Electric Generating Facility
Facility Size (MMBtu/hr)  : Less than or equal to 9,000 (1)
Fuel Type                  : solid
---------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.5
(ppm SO2)                  : 890
(lb SO2/MMBtu)             : 2.50
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 4a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.    Test Methods             => other testing  [As approved by Commission.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [If > 250 MMBtu/hr and has SO2 equipment.]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required giving emission averages
                                   for each period during which the standard is exceeded and giving information
                                   on periods during which the monitoring equipment is inoperative.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)    Calculated on the basis of 12,000 Btu/lb.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                    : MICHIGAN
Region                   : 5
State Regulation Citation : Michigan Air Pollution Laws, Chapter 336, Part 4
---------------------------------------------------------------------------------------------
Applicable Area          : Statewide
Applicable Time Frame    : Global
Facility Type            : Steam or Electric Generating Facility
Facility Size (MMBtu/hr) : Greater then 9,000 (1)
Fuel Type                : solid
---------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                    : 1.0
(ppm SO2)                : 590
(lb SO2/MMBtu)           : 1.67
---------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2a, 2c, 3a, 4a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2c.   Test Methods             => other testing  [As approved by Commission.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For sources >250 MMBtu/hr and with SO2 control
                                  equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Quarterly reports are required stating emission averages
                                  for each period during which the standard is exceeded and giving information
                                  on periods during which the monitoring equipment is inoperative.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)   Calculated on the basis of 12,000 Btu/lb.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : MICHIGAN
Region                     : 5
State Regulation Citation : Michigan Air Pollution Laws, Chapter 336, Part 4, R336.1402
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel Burning Equipment other than Power Plants
Facility Size (MMBtu/hr)   : Greater than 9,000 {1}
Fuel Type                  : Oil
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 1.7
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 4a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2c.   Test Methods             => other testing  [As approved by Commission.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For sources greater than 250 MMBtu/hr and with
                                  SO2 control equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Quarterly reports are required stating emission averages
                                  for each period during which the standard is exceeded and giving information
                                  on periods during which the monitoring equipment is inoperative.]
-------------------------------------------------------------------------------------------
Footnotes:
{1}   Calculated on the basis of 18,000 Btu/lb.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------
State                      : MICHIGAN
Region                     : 5
State Regulation Citation : Michigan Air Pollution Laws, Chapter 336, Part 4, R336.1402
------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Fuel Burning Sources other than Power Plants
Facility Size (MMBtu/hr)   : Greater than 9,000 (1)
Fuel Type                  : Coal
------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.4
------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2c, 3a, 4a, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2c.   Test Methods             => other testing  [As approved by the Commission.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [For sources greater than 250 MMBtu/hr and with
                                  SO2 control equipment.]
4a.   Averaging Time           => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [Quarterly reports are required stating emission averages
                                  for each period during which the standard is exceeded and giving information
                                  on periods during which the monitoring equipment is inoperative.]
------------------------------------------------------------------------------------
Footnotes:
(1)   Calculated on the basis of 12,000 Btu/lb.
------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                     : MINNESOTA
Region                    : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------
Applicable Area           : Statewide except Minneapolis-St. Paul AQCR
Applicable Time Frame     : Before   01/01/80
Facility Type             : Fuel burning installation
Facility Size (MMBtu/hr)  : <=250 for indirect heating equipment, and >250 for direct plus indirect heating
                            equipment at a particular location. (1)
Fuel Type                 : Liquid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 2.0 (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
-----------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
---------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
---------------------------------------------------------------------------------------------------
Applicable Area            : Statewide except Minneapolis-St. Paul AQCR
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)  : >250 for the indirect and for the indirect plus the direct heating equipment. (1)
Fuel Type                  : Liquid
---------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 2.0 (2)
---------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
---------------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
---------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
--------------------------------------------------------------------------------------------
Applicable Area             : Statewide except for Minneapolis-St. Paul AQRC and the City of Duluth
Applicable Time Frame       : After    08/17/71
Facility Type               : fuel burning installation
Facility Size (MMBtu/hr)  : <=250 for indirect, and >250 for indirect plus direct heating equipment. (1)
Fuel Type                   : Liquid
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 2.0 (2)
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3a, 4a, 5a
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance can be achieved by derating heat input and corresponding steam
      output capacity.
--------------------------------------------------------------------------------------------
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SO2 Regulation Report
----------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------
Applicable Area            : Statewide except for Minneapolis-St. Paul AQRC and the City of Duluth
Applicable Time Frame      : After    08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >250 for indirect, and for direct plus indirect heating equipment. (1)
Fuel Type                  : Liquid
----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8 (2)
----------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3a, 4a, 5a
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
----------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance can be achieved by derating heat input and corresponding steam
      output capacity.
----------------------------------------------------------------------------------------
```

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SO2 Regulation Report
---------------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
---------------------------------------------------------------------------------------------------------
Applicable Area            : Statewide except Minneapolis-St. Paul AQCR
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)  : <=250 for the indirect heating equipment, and >250 for the direct plus the
                             indirect heating equipment at a particular location. (1)
Fuel Type                  : Solid
---------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (2)
---------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
---------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
---------------------------------------------------------------------------------------------------------
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SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide except Minneapolis-St. Paul AQCR
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : >250 for the indirect, and for the direct plus the indirect heating equipment. (1)
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (2)
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
----------------------------------------------------------------------------------------------------
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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : MINNESOTA
Region                    : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
------------------------------------------------------------------------------------------
Applicable Area           : Statewide except for Minneapolis-St. Paul AQRC and the City of Duluth
Applicable Time Frame     : After    08/17/71
Facility Type             : fuel burning installation
Facility Size (MMBtu/hr)  : <=250 for indirect, and >250 for indirect plus direct heating equipment. (1)
Fuel Type                 : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 4.0 (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3a, 4a, 5a
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4a.    Averaging Time           => specified in 40 CFR Part 60
5a.    Reporting                => specified in 40 CFR Part 60
------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance can be achieved by derating heat input and corresponding steam
       output capacity.
------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                        : MINNESOTA
Region                       : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------
Applicable Area              : Statewide except for Minneapolis-St. Paul AQRC and the City of Duluth
Applicable Time Frame        : After    08/17/71
Facility Type                : fuel burning installation
Facility Size (MMBtu/hr)     : >250 for indirect, and for direct plus indirect heating equipment. (1)
Fuel Type                    : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)               : 1.2 (2)
-----------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 1c, 2a, 3a, 4a, 5a
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance can be achieved by derating heat input and corresponding steam
      output capacity.
-----------------------------------------------------------------------------------------
```

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SO2 Regulation Report
----------------------------------------------------------------------------------------------------------
State                     : MINNESOTA
Region                    : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------------------
Applicable Area           : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame     : Before   01/01/80
Facility Type             : Fuel burning installation
Facility Size (MMBtu/hr)  : <=250 for the indirect heating equipment, and <=250 for the direct heating
                            equipment. (1)
Fuel Type                 : Liquid
----------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 2.0 (2)
----------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
----------------------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
----------------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
--------------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : <=250 for the indirect heating equipment, and >250 for the direct plus the
                             indirect heating equipment at a particular location. (1)
Fuel Type                  : Liquid
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.6 (2)
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
--------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-------------------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-------------------------------------------------------------------------------------------------------
Applicable Area             : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame       : Before   01/01/80
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : >250 for indirect, and for direct plus indirect heating equipment. (1)
Fuel Type                   : Liquid
-------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.6 (2)
-------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
-------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
-------------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=100 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                  : Liquid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.6 (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >100 but <=250 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                  : Liquid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.6 (2)
----------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-------------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=250 for indirect, and <=250 for direct heating equipment. (1)
Fuel Type                  : Liquid
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 2.0 (2)
-------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
-------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
-------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
------------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >250 for indirect heating equipment and direct plus indirect heating equipment. (1)
Fuel Type                  : Liquid
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8 (2)
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
------------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation  : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : <=250 for the indirect heating equipment, and <=250 for the direct heating
                             equipment. (1)
Fuel Type                  : Solid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (2)
----------------------------------------------------------------------------------------------------
Compliance Procedures              :: 1a, 1c, 2a, 3e, 4b, 5b
1a.   Heat Input Determination     => unit design rated (MMBtu/hr)
1c.   Heat Input Determination     => total plant design rated (MMBtu/hr)
2a.   Test Methods                 => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements      => other  [For derating continuous monitoring of boiler steam flow is
                                      required.]
4b.   Averaging Time               => 1 hour  [For derating.]
5b.   Reporting                    => state regulation  [Yearly reports are required for derating.]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
----------------------------------------------------------------------------------------------------
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SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------------
Applicable Area             : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame       : Before   01/01/80
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : <=250 for the indirect heating equipment, and >250 for the direct and indirect
                              heating equipment at the particular location. (1)
Fuel Type                   : Solid
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 3.0 (2)
-----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [For derating continuous monitoring of boiler steam flow is
                                   required.]
4b.    Averaging Time           => 1 hour  [For derating.]
5b.    Reporting                => state regulation  [Yearly reports are required for derating.]
-----------------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-------------------------------------------------------------------------------------------
Applicable Area             : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame       : Before   01/01/80
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : >250 for the indirect, and for the indirect plus the direct heating equipment (1)
Fuel Type                   : Solid
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 3.0 (2)
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4b, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [For derating continuous monitoring of boiler steam flow is
                                   required.]
4b.    Averaging Time           => 1 hour  [For derating.]
5b.    Reporting                => state regulation  [Yearly reports are required for derating.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-------------------------------------------------------------------------------------------
```

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SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : MINNESOTA
Region                    : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
------------------------------------------------------------------------------------------
Applicable Area           : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame     : After    01/01/80
Facility Type             : Fuel burning installation
Facility Size (MMBtu/hr)  : <=100 for the indirect and >250 for the direct heating equipment. (1)
Fuel Type                 : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 3.0 (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------------
Applicable Area             : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame       : After    01/01/80
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : >100 but <=250 for the indirect heating equipment, and >250 for the direct heating
                              equipment. (1)
Fuel Type                   : Solid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 3.0 (2)
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
----------------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation  : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : <=250 for both indirect and direct heating equipment. (1)
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
------------------------------------------------------------------------------------------
Applicable Area            : Minneapolis-St. Paul Air Quality Control Region
Applicable Time Frame      : After    01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : >250 for the indirect, and for the direct plus the indirect heating equipment. (1)
Fuel Type                  : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.0 (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
--------------------------------------------------------------------------------------------
Applicable Area             : City of Duluth
Applicable Time Frame       : After    01/01/80
Facility Type               : fuel burning installation
Facility Size (MMBtu/hr)    : <=100 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                   : Liquid
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 2.0 (2)
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
--------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
------------------------------------------------------------------------------------------
Applicable Area            : City of Duluth
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >100 but <=250 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                  : Liquid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 2.0 (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                     : MINNESOTA
Region                    : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------
Applicable Area           : City of Duluth
Applicable Time Frame     : After    01/01/80
Facility Type             : fuel burning installation
Facility Size (MMBtu/hr)  : >250 for indirect, and for direct plus indirect heating equipment. (1)
Fuel Type                 : Liquid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 0.8 (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures         :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-------------------------------------------------------------------------------------------
Applicable Area            : City of Duluth
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=100 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                  : Solid
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 4.0 (2)
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
-------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------
Applicable Area             : City of Duluth
Applicable Time Frame       : After    01/01/80
Facility Type               : fuel burning installation
Facility Size (MMBtu/hr)    : >100 but <=250 for indirect, and >250 for direct heating equipment. (1)
Fuel Type                   : Solid
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 4.0 (2)
----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Not determined]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Not determined]
----------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
      output capacity.
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : MINNESOTA
Region                     : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
-----------------------------------------------------------------------------------------------
Applicable Area            : City of Duluth
Applicable Time Frame      : After    01/01/80
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >250 for indirect, and for direct plus indirect heating equipment. (1)
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2 (2)
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 1c, 2a, 3e, 4g, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.    Monitoring Requirements  => other  [Not determined]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [Not determined]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
       of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
       kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
       heated material.
(2)    For indirect heating equipment compliance may be achieved by derating heat input and corresponding steam
       output capacity.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                       : MINNESOTA
Region                      : 5
State Regulation Citation : Minnesota Pollution Control Agency APC-4 and APC-32
----------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : fuel burning installation
Facility Size (MMBtu/hr)    : All (1)
Fuel Type                   : Combination
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : See equation (2)
----------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 1c, 2a, 3e, 4b, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [For derating continuous monitoring of boiler steam flow is
                                  required.]
4b.   Averaging Time           => 1 hour  [For derating]
5e.   Reporting                => other  [Yearly reports are required for derating]
----------------------------------------------------------------------------------------------
Footnotes:
(1)   Indirect heating equipment:  a furnace, boiler, or other unit of combustion equipment where the products
      of combustion do not have direct contact with the heated medium.  Direct heating equipment:  a furnace,
      kiln, dryer, or other combustion equipment where the products of combustion have direct contact with the
      heated material.
(2)   Use equation:  W = [y(a) + z(b)]/(x + y + z), where W = the maximum emissions of SO2 (lb SO2/MMBtu), x =
      % total heat input from gaseous fuels, y = % total heat input from liquid fuels, z = % total heat input
      from solid fuels, a = allowable SO2 standard for liquid fuels, and b = allowable SO2 standard for solid
      fuels.  For indirect heating equipment compliance may be achieved by derating heat input and
      corresponding steam output capacity.
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation : Ohio Administrative Code, Title 3745, Chapter 18
------------------------------------------------------------------------------------------------
Applicable Area            : Cuyahoga, Lake, Stark, Summit, and Trumbull Counties
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >1000
Fuel Type                  : Solid
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a or 2b4, 3a or 3c, 4a or 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.   Test Methods             => fuel testing: other  [Appropriate ASTM method]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.    Monitoring Requirements  => sulfur content of fuel  [coal monitoring requirements:  >1000 MMBtu:  daily,
                                   as-fired fuel sampling, weighted arithmetic average of preceding 30 days;
                                   >100 MMBtu and <=1000 MMBtu:  monthly samples, as-fired or as-received; >10
                                   MMBtu and <=100 MMBtu: monthly samples or monthly average fuel analysis
                                   based on fuel supplier analysis.]
4a.    Averaging Time           => specified in 40 CFR Part 60
4g.    Averaging Time           => other  [30 day]
5e.    Reporting                => other  [Specified by Director]
------------------------------------------------------------------------------------------------
Footnotes:
(1)    AER = 20P^0.67, where AER = allowable emission rate (lb SO2/hr) and P = process weight rate (tons/hr)
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation : Ohio Administrative Code, Title 3745, Chapter 18
------------------------------------------------------------------------------------------------
Applicable Area            : Cuyahoga, Lake, Stark, Summit, and Trumbull Counties
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=1000
Fuel Type                  : Solid
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a or 2b4, 3a or 3c, 4a or 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.   Test Methods             => fuel testing: other  [Appropriate ASTM method]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.    Monitoring Requirements  => sulfur content of fuel  [coal monitoring requirements:  >1000 MMBtu:  daily,
                                   as-fired fuel sampling, weighted arithmetic average of preceding 30 days;
                                   >100 MMBtu and <=1000 MMBtu:  monthly samples, as-fired or as-received; >10
                                   MMBtu and <=100 MMBtu: monthly samples or monthly average fuel analysis
                                   based on fuel supplier analysis.]
4a.    Averaging Time           => specified in 40 CFR Part 60
4g.    Averaging Time           => other  [30 day]
5e.    Reporting                => other  [Specified by Director]
------------------------------------------------------------------------------------------------
Footnotes:
(1)    ER = [(1 X 10^6) X S X 1.9]/H, where ER = emission rate (lb SO2/hr), S = fraction of sulfur in fuel, and
       H = heat content of fuel.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation  : Ohio Administrative Code, Title 3745, Chapter 18
--------------------------------------------------------------------------------------------
Applicable Area            : All counties except Cuyahoga, Lake, Stark, Summit, and Trumbull
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=1000
Fuel Type                  : Solid
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a or 2b4, 3a or 3c, 4a or 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.   Test Methods             => fuel testing: other  [Appropriate ASTM method]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.    Monitoring Requirements  => sulfur content of fuel  [coal monitoring requirements:  >1000 MMBtu:  daily,
                                   as-fired fuel sampling, weighted arithmetic average of preceding 30 days;
                                   >100 MMBtu and <=1000 MMBtu:  monthly samples, as-fired or as-received; >10
                                   MMBtu and <=100 MMBtu: monthly samples or monthly average fuel analysis
                                   based on fuel supplier analysis.]
4a.    Averaging Time           => specified in 40 CFR Part 60
4g.    Averaging Time           => other  [30 day]
5e.    Reporting                => other  [Specified by Director]
--------------------------------------------------------------------------------------------
Footnotes:
(1)    ER = [(1 X 10^6) X S X 1.9]/H, where ER = emission rate (lb SO2/hr), S = fraction of sulfur in fuel, and
       H = heat content of fuel.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation  : Ohio Administrative Code, Title 3745, Chapter 18
---------------------------------------------------------------------------------------------
Applicable Area            : All counties except Cuyahoga, Lake, Stark, Summit, and Trumbull
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >1000
Fuel Type                  : Solid
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a or 2b4, 3a or 3c, 4a or 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.  Test Methods             => fuel testing: other  [Appropriate ASTM method]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.   Monitoring Requirements  => sulfur content of fuel  [coal monitoring requirements:  >1000 MMBtu:  daily,
                                  as-fired fuel sampling, weighted arithmetic average of preceding 30 days;
                                  >100 MMBtu and <=1000 MMBtu:  monthly samples, as-fired or as-received; >10
                                  MMBtu and <=100 MMBtu: monthly samples or monthly average fuel analysis
                                  based on fuel supplier analysis.]
4a.   Averaging Time           => specified in 40 CFR Part 60
4g.   Averaging Time           => other  [30 day]
5e.   Reporting                => other  [Specified by Director]
---------------------------------------------------------------------------------------------
Footnotes:
(1)   AER = 30P^0.67, where AER = allowable emission rate (lb SO2/hr) and P = process weight (tons/hr)
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation  : Ohio Administrative Code, Title 3745, Chapter 18
-------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Solid
-------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
-------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 3a, 4a, 5a
1e.   Heat Input Determination => other  [Not determined]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation : Ohio Administrative Code, Title 3745, Chapter 18
--------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : <=10
Fuel Type                  : Liquid
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
--------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 2b4, 3a or 3c, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.  Test Methods             => fuel testing: other  [Appropriate ASTM method]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.   Monitoring Requirements  => sulfur content of fuel  [coal monitoring requirements:  >1000 MMBtu: daily,
                                  as-fired sampling, weighted arithmetic average of preceding 30 days; >100
                                  MMBtu and <=1000 MMBtu:  monthly samples, as-fired or as-received; >10 MMBtu
                                  and <=MMBtu:  monthly samples or monthly average fuel analysis based on fuel
                                  supplier analysis.]]
4g.   Averaging Time           => other  [30 day]
5e.   Reporting                => other  [as specified by Director]
--------------------------------------------------------------------------------
Footnotes:
(1)   ER = [(1 X 10^6) X D X S X 1.974)]/H, where ER = emission rate (lb SO2/hr), D = density of liquid fuel
      (lb/gal), S = fraction of sulfur in fuel, and H = heat content of fuel.
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : OHIO
Region                     : 5
State Regulation Citation  : Ohio Administrative Code, Title 3745, Chapter 18
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   08/17/71
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : >10
Fuel Type                  : Liquid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.6
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 2a, 2b4, 3a or 3c, 4g, 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b4.  Test Methods             => fuel testing: other  [Appropiate ASTM method]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Or stack gas sampling]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [30 day]
5e.   Reporting                => other  [As specified by Director]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------
State                       : OHIO
Region                      : 5
State Regulation Citation : Ohio Administrative Code, Title 3745, Chapter 18
------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    08/17/71
Facility Type               : fuel burning installation
Facility Size (MMBtu/hr)    : >250
Fuel Type                   : Liquid
------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.8
------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2a, 3a, 4a, 5a
1e.   Heat Input Determination => other  [Not determined]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements  => continuous SO2 monitoring
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
------------------------------------------------------------------------------
```

SO2 Regulation Report

State : OHIO
Region : 5
State Regulation Citation : Ohio Administrative Code, Title 3745, Chapter 18

Applicable Area : Statewide
Applicable Time Frame : Before 08/17/71
Facility Type : fuel burning installation
Facility Size (MMBtu/hr) : All
Fuel Type : Gaseous

Emissions Limits:
(lb SO2/MMBtu) : See equation (1)

Compliance Procedures :: 1c, 2a or 2b4, 3a or 3c, 4a or 4g, 5e
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Method 6]
2b4. Test Methods => fuel testing: other [Appropriate ASTM method]
3a. Monitoring Requirements => continuous SO2 monitoring [Or stack gas sampling]
3c. Monitoring Requirements => sulfur content of fuel [coal monitoring requirements: >1000 MMBtu: daily, as-fired fuel sampling, weighted arithmetic average of preceding 30 days; >100 MMBtu and <=1000 MMBtu: monthly samples, as-fired or as-received; >10 MMBtu and <=100 MMBtu: monthly samples or monthly average fuel analysis based on fuel supplier analysis.]
4a. Averaging Time => specified in 40 CFR Part 60
4g. Averaging Time => other [30 day]
5e. Reporting => other [Specified by Director]

Footnotes:
(1) ER = [(1 X 10^6) X D X S X 1.998]/H, where ER = emission rate (lb SO2/hr), D = density of gaseous fuel (lb/ft3), and S = fraction of sulfur in fuel, and H = heat content of fuel.

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417
------------------------------------------------------------------------------------------------
Applicable Area            : Area I (1)
Applicable Time Frame      : Global
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : <=250
Fuel Type                  : Solid
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.11
------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere and Brown County; Area VI = City of Peshigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------------------
```

```
S02 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation   : NR 417
-----------------------------------------------------------------------------------------------
Applicable Area             : Area II (1)
Applicable Time Frame       : Before   01/01/80
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : Emission point <160 feet above ground
Fuel Type                   : Liquid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.22
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3e, 4g, 5e
1e.   Heat Input Determination  => other  [Not determined]
2c.   Test Methods              => other testing  [As specified by Department]
3e.   Monitoring Requirements   => other  [As specified by Department]
4g.   Averaging Time            => other  [Not determined]
5e.   Reporting                 => other  [As specified by Department]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation : NR 417
-------------------------------------------------------------------------------------------
Applicable Area            : Area II (1)
Applicable Time Frame      : Before   01/01/80
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : Emission point >=160 feet above ground
Fuel Type                  : Liquid
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not determined]
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation : NR 418
-----------------------------------------------------------------------------------------------
Applicable Area            : Area III {1}
Applicable Time Frame      : Before   11/01/79
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >25
Fuel Type                  : Distillate or combination
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 0.5
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
-----------------------------------------------------------------------------------------------
Footnotes:
{1}   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 418
----------------------------------------------------------------------------------------------
Applicable Area            : Area III (1)
Applicable Time Frame      : Before   11/01/79
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >25
Fuel Type                  : Residual or combination
----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.1
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
----------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 418
------------------------------------------------------------------------------------
Applicable Area            : Area III (1)
Applicable Time Frame      : Before   11/01/79
Facility Type              : Steam generating boiler
Facility Size (MMBtu/hr)   : >25 but <100
Fuel Type                  : Solid and combinations with solid
------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 7.0
------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : WISCONSIN
Region : 5
State Regulation Citation : NR 418

Applicable Area : Area III (1)
Applicable Time Frame : Before 11/01/79
Facility Type : All steam generating boilers other than electrical utility boilers
Facility Size (MMBtu/hr) : >=100
Fuel Type : Solid and combinations with solid

Emissions Limits:
(lb SO2/MMBtu) : 2.5 (2)

Compliance Procedures :: 1a, 2c, 3e, 4g, 5e
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by Department]
3e. Monitoring Requirements => other [As specified by Department]
4g. Averaging Time => other [Not determined]
5e. Reporting => other [As specified by Department]

Footnotes:

(1) Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII = all areas not already covered.

(2) Emission limit applies to boilers with emission point heights less than 180 feet above ground. For boilers with emission point heights between 180 and 200 feet above ground, determine emission limit using the following equation: x = 10[(0.0089)(emission point height) - 1.18], where x = lb SO2/MMBtu. For boilers with emission point heights above 220 feet the emission limit is 5.8 lb SO2/MMBtu.

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------------
State                     : WISCONSIN
Region                    : 5
State Regulation Citation : NR 418
------------------------------------------------------------------------------------------------------------
Applicable Area           : Area III (1)
Applicable Time Frame     : Before   11/01/79
Facility Type             : Electrical utility boiler
Facility Size (MMBtu/hr)  : >=100
Fuel Type                 : Solid and combinations with solid
------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 4.25
------------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2c, 3e, 4g, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 418
------------------------------------------------------------------------------------------
Applicable Area             : Area IV (1)
Applicable Time Frame       : Before   12/01/83
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : >250
Fuel Type                   : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 3.28
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4d, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4d.   Averaging Time           => 24 hours
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 417 & 440
--------------------------------------------------------------------------------------
Applicable Area             : Area IV (1)
Applicable Time Frame       : Before   12/01/83
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : >250
Fuel Type                   : Residual
--------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.6
--------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4d, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by Department]
3e.    Monitoring Requirements  => other  [As specified by Department]
4d.    Averaging Time           => 24 hours
5e.    Reporting                => other  [As specified by Department]
--------------------------------------------------------------------------------------
Footnotes:
(1)    Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
       = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
       Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
       all areas not already covered.
--------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 417 & 440
-------------------------------------------------------------------------------------------------
Applicable Area             : Area IV (1)
Applicable Time Frame       : Before    12/01/83
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : >250
Fuel Type                   : All except residual and solid (includes distillates and gaseous)
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.5
-------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c, 2c, 3e, 4d, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4d.   Averaging Time           => 24 hours
5e.   Reporting                => other  [As specified by Department]
-------------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
-------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : WISCONSIN
Region : 5
State Regulation Citation : NR 418

Applicable Area : Area IV (1)
Applicable Time Frame : Before 12/01/83
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : >250
Fuel Type : Combination

Emissions Limits:
(lb SO2/MMBtu) : See equation (2)

Compliance Procedures :: 1c, 2c, 3e, 4d, 5e
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
2c. Test Methods => other testing [As specified by Department]
3e. Monitoring Requirements => other [As specified by Department]
4d. Averaging Time => 24 hours
5e. Reporting => other [As specified by Department]

Footnotes:

(1) Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII = all areas not already covered.

(2) $Q = [x(3.28) + y(1.60) + z(0.5)]/(x + y + z)$, where Q = lb SO2/MMBtu, x = % total heat input from solid fuel, y = % total heat input from residual fuel, and z = % total heat input from all other fuels.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 418
-----------------------------------------------------------------------------------------
Applicable Area             : Area VI (1)
Applicable Time Frame       : Before   10/01/84
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : Emission point >149 feet above ground
Fuel Type                   : Liquid and natural gas
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.52
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation   : NR 418
-----------------------------------------------------------------------------------------
Applicable Area             : Area VI (1)
Applicable Time Frame       : Before   10/01/84
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All except liquid and natural gas with emission points >149 feet above ground
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.72 lb/hr
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3e, 4g, 5e
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [As specified by Department]
3e.    Monitoring Requirements  => other  [As specified by Department]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [As specified by Department]
-----------------------------------------------------------------------------------------
Footnotes:
(1)    Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
       = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
       Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
       all areas not already covered.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 418
------------------------------------------------------------------------------------------
Applicable Area            : Area V {1}
Applicable Time Frame      : Before   02/01/84
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : Emission point height < 377 feet above ground
Fuel Type                  : All
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.5
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3a, 3c, 3e, 4g, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3e.   Monitoring Requirements  => other  [For solid fuel type sources >500 MMBtu/hr, continuous monitoring is
                                  required; for solid fuel type sources <500 MMBtu/hr, daily fuel samples are
                                  required; for liquid fuel type sources, daily fuel samples are required; and
                                  for other fuel type sources, annual stack testing is required]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [Quarterly reports are required which include excess
                                  emission reports, amount of fuel used, fuel sampling and analysis reports.]
------------------------------------------------------------------------------------------
Footnotes:
{1}   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation   : NR 418
--------------------------------------------------------------------------------------------
Applicable Area             : Area V {1}
Applicable Time Frame       : Before   02/01/84
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : Emission point height >= 377 feet above ground
Fuel Type                   : All
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 5.58
--------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 2c, 3a, 3c, 3e, 4g, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3c.   Monitoring Requirements  => sulfur content of fuel
3e.   Monitoring Requirements  => other  [For solid fuel type sources >500 MMBtu/hr, continuous monitoring is
                                  required; for solid fuel type sources <500 MMBtu/hr, daily fuel samples are
                                  required; for liquid fuel type sources, daily fuel samples are required; and
                                  for other fuel type sources, annual stack testing is required]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [Quarterly reports are required which include excess
                                  emission reports, amount of fuel used, fuel sampling and analysis reports.]
--------------------------------------------------------------------------------------------
Footnotes:
{1}   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417
------------------------------------------------------------------------------------------
Applicable Area            : AREA VII (1)
Applicable Time Frame      : Before   02/01/85
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : <250
Fuel Type                  : Residual fuel oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.0
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 417
------------------------------------------------------------------------------------------
Applicable Area             : Area VII (1)
Applicable Time Frame       : Before   02/01/85
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : >=250
Fuel Type                   : Residual fuel oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.5 (2)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere and Brown County; Area VI = City of Peshigo and Marinette County; and Area VII =
      all areas not already covered.
(2)   Alternative: any size not to exceed 3.0 lb SO2/MMBtu (30-day rolling average), by permission of
      Department.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 417
------------------------------------------------------------------------------------------------------------
Applicable Area             : Area VII (1)
Applicable Time Frame       : Before   02/01/85
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : <250
Fuel Type                   : Solid
------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 5.5
------------------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1c, 2c, 3e, 4g, 5e
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As specified by Department]
3e.    Monitoring Requirements  => other  [As specified by Department]
4g.    Averaging Time           => other  [Not determined]
5e.    Reporting                => other  [As specified by Department]
------------------------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
       = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
       Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
       all areas not already covered.
------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation : NR 417
-----------------------------------------------------------------------------------------
Applicable Area            : AREA VII (1)
Applicable Time Frame      : Before   02/01/85
Facility Type              : Fuel burning installation
Facility Size (MMBtu/hr)   : >=250
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3.2 (2)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2c, 3e, 4g, 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
2c.   Test Methods             => other testing  [As specified by Department]
3e.   Monitoring Requirements  => other  [As specified by Department]
4g.   Averaging Time           => other  [30-day rolling average for alternative emission limits]
5e.   Reporting                => other  [As specified by Department]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
      = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
      Green Bay and De Pere and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
      all areas not already covered.
(2)   Alternative:  any size not to exceed 5.5 lb SO2/MMBtu (calculated on a 30-day rolling average), by
      permission of Department.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417 & 440
-------------------------------------------------------------------------------------------------
Applicable Area            : Statewide (1)
Applicable Time Frame      : After    08/17/71
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Solid
-------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
-------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 3a, 3c, 4a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel  [If no flue-gas desulfurization]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required, including information on
                                   excess emissions.]
-------------------------------------------------------------------------------------------------
Footnotes:
(1)    Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
       = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
       Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
       all areas not already covered.
-------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : NR 440
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    09/18/78
Facility Type               : Fuel burning installations
Facility Size (MMBtu/hr)    : >250 (1)
Fuel Type                   : Solid
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.2 and 10% of the potential combustion concentration (2)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b1, 3a or 3c, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.   Test Methods             => fuel testing: ASTM  [ASTM 19]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [30-day rolling average.]
5b.    Reporting                => state regulation  [For each 24-hour period reports are required which are to
                                   include the 30-day emission rates, % reduction of potential combustion
                                   concentration, and identification of "F" factor.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   All facilities that use 100% anthracite must meet emission limitations of 1.2 lb SO2/MMBtu.
(2)   Emission limits are 30% of the potential combustion concentration when emissions are <0.6 lb SO2/MMBtu
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417 and 440
----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    08/17/71
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Liquid
----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
----------------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 2a, 3a, 3c, 4a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel  [If no flue-gas desulfurization.]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required, including reports on
                                   excess emissions.]
----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417 and 440
--------------------------------------------------------------------------------
Applicable Area      .     : Statewide
Applicable Time Frame      : After    02/01/85
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : <250
Fuel Type                  : Residual fuel oil
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.5
--------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2a, 3a, 3c, 4a, 5b
1b.   Heat Input Determination  => unit actual or operating (MMBtu/hr)
2a.   Test Methods              => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.   Monitoring Requirements   => continuous SO2 monitoring
3c.   Monitoring Requirements   => sulfur content of fuel  [If no flue-gas desulfurization]
4a.   Averaging Time            => specified in 40 CFR Part 60
5b.   Reporting                 => state regulation  [Quarterly reports are required, including reports on
                                   excess emissions.]
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation : NR 440
---------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/18/78
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Liquid and gaseous
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8 and 10% of the potential combustion concentration (1)
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b1, 3a, 3c, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.   Test Methods             => fuel testing: ASTM  [ASTM 19]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Not for natural gas]
3c.    Monitoring Requirements  => sulfur content of fuel
4g.    Averaging Time           => other  [30-day rolling average]
5b.    Reporting                => state regulation  [Quarterly reports are required, including reports on
                                   excess emissions.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)    Emission limits are 100% of the potential combustion concentrations when emissions are <0.2 lb
       SO2/MMBtu.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : WISCONSIN
Region                     : 5
State Regulation Citation  : NR 417 and 440
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    08/17/71
Facility Type              : Fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : Combinations
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : See equation (1)
-----------------------------------------------------------------------------------------
Compliance Procedures           :: 1c, 2a, 3a, 3c, 4a, 5b
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel  [If no flue-gas desulfurization.]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required, including reports on
                                   excess emissions.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)    Use equation PSO2 = [y(340) + z(520)]/(y + z); where PSO2 = prorated standard for SO2, y = % total heat
       input from liquid fuels, and z = % total heat input from solid fuels.
-----------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : WISCONSIN
Region : 5
State Regulation Citation : NR 440

Applicable Area : Statewide
Applicable Time Frame : After 09/18/78
Facility Type : Fuel burning installations
Facility Size (MMBtu/hr) : >250
Fuel Type : Combinations

Emissions Limits:
(lb SO2/MMBtu) : See equations (1)

Compliance Procedures :: 1a, 2a, 2b1, 3a, 3c, 4g, 5b
1a. Heat Input Determination => unit design rated (MMBtu/hr)
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Method 6]
2b1. Test Methods => fuel testing: ASTM [ASTM 19]
3a. Monitoring Requirements => continuous SO2 monitoring
3c. Monitoring Requirements => sulfur content of fuel
4g. Averaging Time => other [30-day rolling average]
5b. Reporting => state regulation [For each 24-hour period reports are required which are to include 30-day average emission rates, percent reduction of potential combustion concentrations and identification of the "F" factor.]

Footnotes:
(1) If emissions are >0.6 lb SO2/MMBtu, use equations: ESO2 = (340x + 520y)/100 and PSO2 = 10%. If emissions are <=0.6 lb SO2/MMBtu, use equations: ESO2 = (340x + 520y)/100 and PSO2 = (90x + 70y)/100. ESO2 = prorated SO2 emission limit, PSO2 = % potential SO2 emission allowed, x = % total heat input from liquid or gas, and y = total heat input from solid.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                     : WISCONSIN
Region                    : 5
State Regulation Citation : NR 417 and 440
-----------------------------------------------------------------------------------------
Applicable Area           : Statewide except Southeast Wisconsin Intrastate AQCR (1)
Applicable Time Frame     : After    02/01/85
Facility Type             : Fuel burning installations
Facility Size (MMBtu/hr)  : <250
Fuel Type                 : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 3.2
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2a, 3a, 3c, 4a, 5b
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3c.    Monitoring Requirements  => sulfur content of fuel  [If no flue-gas desulfurization]
4a.    Averaging Time           => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [Quarterly reports are required, including reports on
                                   excess emissions.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)    Area I = Southeast Wisconsin Intrastate AQCR; Area II = Village of Brokaw and Marathon County; Area III
       = City of Madison and Dane County; Area IV = City of Milwaukee and Milwaukee County; Area V = Cities of
       Green Bay and De Pere, and Brown County; Area VI = City of Peshtigo and Marinette County; and Area VII =
       all areas not already covered.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                       : WISCONSIN
Region                      : 5
State Regulation Citation : Wisconsin Environmental Protection Law, Chapters 144 & 440
-------------------------------------------------------------------------------------------
Applicable Area             : State owned large source (1)
Applicable Time Frame       : Global
Facility Type               : Fuel burning installation
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.50
-------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2c, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [Specified by Department]
3e.   Monitoring Requirements  => other  [Specified by Department]
4g.   Averaging Time           => other  [Not determined]
5e.   Reporting                => other  [Specified by Department]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   A source is considered large if SO2 emissions averaged at least 1000 tons annually in the most recent
      5-year period.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : ARKANSAS
Region                     : 6
State Regulation Citation : Arkansas Air Pollution Control Code, Section 8, and Arkansas Plan for Air
                             Pollution Control, Section 7.
--------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : attain the National Ambient Air Quality Standards (1)
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 3a or 3b, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [May be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.    Monitoring Requirements  => other  [As prescribed by the Director.]
4g.    Averaging Time           => other  [As specified by the Director.]
5b.    Reporting                => state regulation  [Records of the nature and amount of emissions and any
                                   other information deemed necessary to determine source compliance shall be
                                   submitted at the Directors request within fourty five days after the end of
                                   the reporting period.  Reporting periods are June 1 through November 30, and
                                   December 1 through May 31, or other periods specified by the Director.  All
                                   information will be on forms or in a format prescribed by the Director.]
--------------------------------------------------------------------------------------------
Footnotes:
(1)    A source must not cause a SO2 NAAQS exceedance; emission limits are specified in each operating permit.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                     : LOUISIANA
Region                    : 6
State Regulation Citation : Louisiana Air Pollution Control Regulations, Chapter 15
-----------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : all but sulfuric acid plants and sulfur recovery plants
Facility Size (MMBtu/hr)  : all
Fuel Type                 : all
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                 : Less than or equal to 2000 (by volume at standard conditions) (1)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 2d, 3e, 4g, 5b, 5d
1e.   Heat Input Determination => other  [Not specified]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
2c.   Test Methods             => other testing  [See Section 1509, Table 4] (2)
2d.   Test Methods             => other testing  [Equivalent methods approved by the Department]
3e.   Monitoring Requirements  => other  [As specified by the Department]
4g.   Averaging Time           => other  [As specified by the Department]
5b.   Reporting                => state regulation  [Section 1507(B)]
5d.   Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Small units may be exempted from this limit by administrative authority.
(2)   References for Methods of Measurement:  1) Seidman, Analytical Chemistry Volume 30, page 1680 (1958)
      "Determination of Sulfur Oxides in Stack Gases."  2)  Shell Development Company method for the
      Determination of Sulfur Dioxide and Sulfur Trioxide PHS 999 AP-13 Appendix B, pages 85-87 "Atmospheric
      Emissions Sulfuric Acid Manufacturing Processes."  3) Reich Test for Sulfur Dioxide."  Atmospheric
      Emissions from Sulfuric Acid Manufacturing Process"  PHS 999 AP-13 Appendix B, pages 76-80.  4) The
      Modified Monsanto Company Method "Atmospheric Emissions from Sulfuric Acid Process" PHS 999 AP-13,
      Appendix B, pages 61-67.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : NEW MEXICO
Region                     : 6
State Regulation Citation : Air Quality Control Regulation 605
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/10/72
Facility Type              : fuel burning installation
Facility Size (MMBtu/hr)   : See footnote (1)
Fuel Type                  : oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.34
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 1a, 2c, 3e, 4g, 5d
1e.   Heat Input Determination => other
1a.   Heat Input Determination => unit design rated (MMBtu/hr)  [Not specified]
2c.   Test Methods             => other testing  [As specified by the Director]
3e.   Monitoring Requirements  => other  [As specified by the Director]
4g.   Averaging Time           => other  [Not specified]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Facility size is greater than 1,000,000 MMBtu per year per unit.
------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : NEW MEXICO
Region : 6
State Regulation Citation : Air Quality Control Regulation 602

Applicable Area : Statewide
Applicable Time Frame : After 12/31/82
Facility Type : station consisting of at least one coal burning installation (1)
Facility Size (MMBtu/hr) : all
Fuel Type : coal

Emissions Limits:
(lb SO2/MMBtu) : 0.55 (30-day average) [or 13,000 lb/hour (3-hour average)] (2)

Compliance Procedures :: 1d, 2a, 2c, 3a, 3c or 3e, 4c, 4g, 5b
1d. Heat Input Determination => total plant actual or operating (MMBtu/hr) [Section 602(E)]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Methods 1-4, and 6]
2c. Test Methods => other testing [The Department may require the owner/operator to conduct a performance test (not more than once per year) such as specified in 40 CFR Part 60, Appendix B.]
3a. Monitoring Requirements => continuous SO2 monitoring [Both prior to enetering the SO2 removal system and at all locations which SO2 emissions are released to the atmosphere]
3c. Monitoring Requirements => sulfur content of fuel [Section 602(E)]
3e. Monitoring Requirements => other [Alternate method approved by the Department]
4c. Averaging Time => 3 hours
4g. Averaging Time => other [30 day]
5b. Reporting => state regulation [Section 602(E)]

Footnotes:
(1) which began commercial operation between 12/31/76 and 12/31/82
(2) If the station demonstrates to the Department that in optimum operation this limit cannot be met, the required limit would be 0.65 lb SO2/MMBtu.

SO2 Regulation Report

State : NEW MEXICO
Region : 6
State Regulation Citation : Air Quality Control Regulation 602

Applicable Area : Statewide
Applicable Time Frame : After 01/01/83
Facility Type : station consisting of at least one coal burning installation (1)
Facility Size (MMBtu/hr) : >250
Fuel Type : coal

Emissions Limits:
(lb SO2/MMBtu) : 1.2

Compliance Procedures :: 1d, 2a, 2c, 3a, 3c or 3e, 4c, 4g, 5b
1d. Heat Input Determination => total plant actual or operating (MMBtu/hr) [Section 602(E)]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Methods 1-4, and 6]
2c. Test Methods => other testing [The Department may require the owner/operator to conduct a performance test (not more than once per year) such as specified in 40 CFR Part 60, Appendix B.]
3a. Monitoring Requirements => continuous SO2 monitoring [Both prior to enetering the SO2 removal system and at all locations which SO2 emissions are released to the atmosphere]
3c. Monitoring Requirements => sulfur content of fuel [Section 602(E)]
3e. Monitoring Requirements => other [Alternate method approved by the Department]
4c. Averaging Time => 3 hours
4g. Averaging Time => other [30 day]
5b. Reporting => state regulation [Section 602(E)]

Footnotes:
(1) which began commercial operation between 12/31/76 and 12/31/82

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : NEW MEXICO
Region                    : 6
State Regulation Citation : Air Quality Control Regulation 602
------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : After    01/01/83
Facility Type             : coal burning installation (1)
Facility Size (MMBtu/hr)  : >250
Fuel Type                 : coal
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 0.34
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1d, 2a, 2c, 3a, 3c or 3e, 4g, 5b
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Section 602(E)]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and 6]
2c.   Test Methods             => other testing  [The Department may require to owner/operator to conduct a
                                  performance test (but not more than once oper year) as specified in 40 CFR
                                  Part 60, Appendix B.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Both prior to entering the SO2 removal system
                                  and at all locations which SO2 emissions are released to the atmosphere.]
3c.   Monitoring Requirements  => sulfur content of fuel  [Section 602(E)]
3e.   Monitoring Requirements  => other  [Unless Department has approved an alternate method]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [Section 602(E)]
------------------------------------------------------------------------------------------
Footnotes:
(1)   which began commercial operation prior to 12/31/76 and after 12/31/82
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : NEW MEXICO
Region                     : 6
State Regulation Citation : Air Quality Control Regulation 602
--------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    12/31/84
Facility Type              : fuel burning installations with two or more units
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : coal
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 17,900 lb/hour (1)
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a, 2c, 3a, 3c or 3e, 4c, 4g, 5b
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Section 602(E)]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4, and 6]
2c.    Test Methods             => other testing  [The Department may require the owner/operator to conduct a
                                   performance test (not more than once per year) such as specified in 40 CFR
                                   Part 60, Appendix B.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Both prior to enetering the SO2 removal system
                                   and at all locations which SO2 emissions are released to the atmosphere]
3c.    Monitoring Requirements  => sulfur content of fuel  [Section 602(E)]
3e.    Monitoring Requirements  => other  [Alternate method approved by the Department]
4c.    Averaging Time           => 3 hours
4g.    Averaging Time           => other  [30 day]
5b.    Reporting                => state regulation  [Section 602(E)]
--------------------------------------------------------------------------------------------
Footnotes:
(1)    Emission limit not to be exceeded more than once per year based on a 3-hour average determined on a
       total station basis.  Alternative stack emission limitations may be approved by the Department.
       Facilities also cannot exceed twenty-eight percent of the total sulfur produced as averaged over a
       thirty day period on a total station basis.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : gaseous fuel
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.2
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [As approved by the Commissioner]
3e.    Monitoring Requirements  => other  [If the facility is >250 MMBtu/hour, an instrument for continuously
                                   monitoring and recording SO2 emissions is required, except where gaseous
                                   fuel containing <1% sulfur is the only fuel burned.]
4g.    Averaging Time           => other  [2 hour maximum]
5b.    Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B):  Maintain a file of
                                   all measurements required and retain for a year.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : liquid fuel
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8 (1)
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2b1 or 2c, 3c or 3e, 4g, 5b, 5e
1e.    Heat Input Determination => other  [Not specified]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [466.26 (Volume 36, No.
                                   159; August 17, 1971)]
2b1.   Test Methods             => fuel testing: ASTM  [D129 or D1552]
2c.    Test Methods             => other testing  [As approved by the Commissioner]
3c.    Monitoring Requirements  => sulfur content of fuel
3e.    Monitoring Requirements  => other  [If facility is >250 MMBtu/hr, instrument for continuously monitoring
                                   and recording SO2 emissions required.]
4g.    Averaging Time           => other  [Maximum 2 hour average]
5b.    Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B):  Maintain a file of
                                   all measurements required and retain them for a year.]
5e.    Reporting                => other
------------------------------------------------------------------------------------------------
Footnotes:
(1)    If differennt fuels are burned simultaneously, the standard is determined by proration.  Formula:  y(.8)
       + z(1.2)/y + z; where y is the % of total heat input derived from liquid fuel and z is the % of total
       heat input derived from solid fuel.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2 (1)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a, 2b1 or 2c, 3c or 3e, 4g, 5b, 5e
1e.    Heat Input Determination => other  [Not specified]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [466.26 (Volume 36, No.
                                   159; August 17, 1971)]
2b1.   Test Methods             => fuel testing: ASTM  [D271]
2c.    Test Methods             => other testing  [As approved by the Commissioner]
3c.    Monitoring Requirements  => sulfur content of fuel
3e.    Monitoring Requirements  => other  [If facility is >250 MMBtu/hr, instrument for continuously monitoring
                                   and recording SO2 emissions required.]
4g.    Averaging Time           => other  [Maximum 2 hour average]
5b.    Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B).  Maintain a file of
                                   all measurements required and retain them for a year.]
5e.    Reporting                => other
------------------------------------------------------------------------------------------
Footnotes:
(1)    If differennt fuels are burned simultaneously, the standard is determined by proration.  Formula:  y(.8)
       + z(1.2)/y + z; where y is the % of total heat input derived from liquid fuel and z is the % of total
       heat input derived from solid fuel.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
---------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   07/01/72
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
---------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.52 (1350 ug/m3)
---------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 4g, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [As specified in CFR 466.65 (36 FR, No. 159, August 17,
                                   1971)]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
4g.    Averaging Time           => other  [A 5 minute period of any hour]
5b.    Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B): Maintain a file of all
                                   measurements and retain them for a year.]
---------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   07/01/72
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.46
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 4b, 5b
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [As specified in CFR 466.65 (36 FR, No. 159, August 17,
                                  1971)]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B):  Maintain a file of
                                  all measurements required and retain them for a year.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   07/01/72
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.25
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3b, 4c, 5b
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [As specified in CFR 466.65 (36 FR, No. 159, August 17,
                                  1971)]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
4c.   Averaging Time           => 3 hours
5b.   Reporting                => state regulation  [Regulation 1.5; Regulation 3.4(B):  Maintain a file of
                                  all measurements required and retain them for a year.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 3.4
--------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   07/01/72
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
--------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.05
--------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 3b, 4d, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [As specified in CFR 466.65 (36 FR, No. 159, August 17,
                                   1971)]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
4d.    Averaging Time           => 24 hours
5b.    Reporting                => state regulation  [Regulation 1.5; Regulation 3.4:  Maintain a file of all
                                   measurements required and retain them for a year.]
--------------------------------------------------------------------------------------
```

SO2 Regulation Report

```
------------------------------------------------------------------------------------------
State                       : OKLAHOMA
Region                      : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 1.2
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : all
Facility Size (MMBtu/hr)    : all
Fuel Type                   : all
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : attain the National Ambient Air Quality Standard (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3b, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [Test procedures as approved by the Commissioner]
3b.   Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.   Monitoring Requirements  => other  [As specified by the Commissioner]
4g.   Averaging Time           => other  [Annual arithmetic average]
5b.   Reporting                => state regulation  [Regulation 5.1]
------------------------------------------------------------------------------------------
Footnotes:
(1)   A source must not cause a SO2 NAAQS exceedance.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                     : OKLAHOMA
Region                    : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 1.2
---------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : all
Facility Size (MMBtu/hr)  : all
Fuel Type                 : all
---------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                 : 0.14 (365 ug/m3) primary standard
---------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3b, 3e, 4d, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [Test procedures approved by the Commissioner]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.    Monitoring Requirements  => other  [As specified by the Commissioner]
4d.    Averaging Time           => 24 hours  [Maximum]
5b.    Reporting                => state regulation  [Regulation 5.1]
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                      : OKLAHOMA
Region                     : 6
State Regulation Citation : Oklahoma Air Pollution Rules, Regulation 1.2
-------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.5 (1300 ug/m3) secondary standard
-------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3b, 3e, 4c, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [Test procedures approved by the Commissioner]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.    Monitoring Requirements  => other  [As approved by the Commissioner]
4c.    Averaging Time           => 3 hours  [Maximum]
5b.    Reporting                => state regulation  [Regulation 5.1]
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                     : TEXAS
Region                    : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section
                            112.9
--------------------------------------------------------------------------------------------
Applicable Area           : All counties except Galveston, Harris, Jefferson, and Orange (1)
Applicable Time Frame     : Global
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : all
Fuel Type                 : all
--------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                 : 0.4 (net ground level concentration)
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c or 2d, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2c.    Test Methods             => other testing  [As specified by the Board or the Executive Director.]
2d.    Test Methods             => other testing  [Alternate sampling method if approved by the Executive
                                   Director.]
3e.    Monitoring Requirements  => other  [As specified by the Board of the Executive Director.]
4g.    Averaging Time           => other  [Thirty minute period.]
5b.    Reporting                => state regulation  [General rules, Sections 101.8, 101.10, and 101.12]
--------------------------------------------------------------------------------------------
Footnotes:
(1)    All new sources except those in El Paso County are exempt if the following conditions are met:  1)
       Federal NSPS and BACT are met; 2) Neither primary nor secondary SO2 air quality standards are exceeded;
       3) sources on an exempt property prior to 01/19/80 remain in compliance.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
State                      : TEXAS
Region                     : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section
                             112.8
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
Applicable Area            : Jefferson and Orange Counties
Applicable Time Frame      : Global
Facility Type              : all
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : 0.32 (net ground level concentration)
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c or 2d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [As specified by the Board or the Executive Director.]
2d.   Test Methods             => other testing  [Alternate sampling method if approved by the Executive
                                   Director.]
3e.   Monitoring Requirements  => other  [As specified by the Board or the Executive Director.]
4g.   Averaging Time           => other  [Thirty minute period.]
5b.   Reporting                => state regulation  [General rules, Sections 101.8, 101.10, and 101.12]
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------------
State                     : TEXAS
Region                    : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section
                            112.7
-----------------------------------------------------------------------------------------------------
Applicable Area           : Galvaston and Harris Counties
Applicable Time Frame     : Global
Facility Type             : all
Facility Size (MMBtu/hr)  : all
Fuel Type                 : all
-----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : 0.28 (net ground level concentration)
-----------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2c or 2d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [As specified by the Board or the Executive Director.]
2d.   Test Methods             => other testing  [Alternate sampling method if approved by the Executive
                                  Director.]
3e.   Monitoring Requirements  => other  [As specified by the Board or the Executive Director.]
4g.   Averaging Time           => other  [Thirty minute period.]
5b.   Reporting                => state regulation  [General Rules, Sections 101.8, 101.10, and 101.12]
-----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : TEXAS
Region                     : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section
                             112.6
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel-fired steam generator
Facility Size (MMBtu/hr)   : all
Fuel Type                  : liquid
------------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 440 (1)
------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c or 2d, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [As specified by the Board or Executive Director]
2d.   Test Methods             => other testing  [Alternate sampling method if approved by the Executive
                                  Director]
3e.   Monitoring Requirements  => other  [As specified by the Board or the Executive Director]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [General Rules, Sections 101.8, 101.10, and 101.12]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   If a source has an effective stack height less than standard effective stack height, the allowable
      emission concentration must be reduced by multiplying it by the square of the effective stack height
      divided by the standard effective stack height.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : TEXAS
Region                     : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section
                             112.5
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel-fired steam generator
Facility Size (MMBtu/hr)   : all
Fuel Type                  : solid fossil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 3 (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c or 2d, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified]
2c.    Test Methods             => other testing  [As specified by the Board or Executive Director]
2d.    Test Methods             => other testing  [Alternate sampling method if approved by the Executive
                                   Director]
3e.    Monitoring Requirements  => other  [As specified by the Board or the Executive Director]
4g.    Averaging Time           => other  [Not specified]
5b.    Reporting                => state regulation  [General Rules, Sections 101.8, 101.10, and 101.12]
------------------------------------------------------------------------------------------
Footnotes:
(1)    New proven technology in removing SO2 emissions must be applied when it becomes available.
------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : TEXAS
Region : 6
State Regulation Citation : Texas Regulation II - Control of Air Pollution From Sulfur Compounds, Section 112.5

Applicable Area : Milam County
Applicable Time Frame : After 01/01/82
Facility Type : fuel-fired steam generators built before 01/01/55
Facility Size (MMBtu/hr) : all
Fuel Type : solid fossil

Emissions Limits:
(lb SO2/MMBtu) : 4 (1)

Compliance Procedures :: 1e, 2c or 2d, 3e, 4g, 5b
1e. Heat Input Determination => other [Not specified]
2c. Test Methods => other testing [As specified by the Board or Executive Director]
2d. Test Methods => other testing [Alternate sampling method if approved by the Executive Director]
3e. Monitoring Requirements => other [As specified by the Board or the Executive Director]
4g. Averaging Time => other [Not specified]
5b. Reporting => state regulation [General Rules, Sections 101.8, 101.10, and 101.12]

Footnotes:
(1) New proven technology in removing SO2 emissions must be applied when it becomes available.

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                     : IOWA
Region                    : 7
State Regulation Citation : Title II, Chapter 23.3(3), Chapter 24, Chapter 25.1(8), and (9)
-----------------------------------------------------------------------------------------------
Applicable Area           : Statewide excluding the counties of Black Hawk, Clinton, Des Moines, Dubuque,
                            Jackson, Lee, Linn, Lousia, Muscatine, and Scott.
Applicable Time Frame     : Before   09/23/70
Facility Type             : Fuel burning units
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Solid fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 5.0
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b1, 2c, 3a, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack sampling and
                                   associated analytical methods are those specified in the "Compliance
                                   Sampling Manual", adopted by the Commission on May 19, 1977.]
2b1.   Test Methods             => fuel testing: ASTM  [D-2015-66]
2c.    Test Methods             => other testing  [Emission tests and continuous monitoring performance tests
                                   may be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4g.    Averaging Time           => other  [Replicated maximum two hour average.]
5b.    Reporting                => state regulation  [24.1; An oral and written report of excess emissions made
                                   to the regional office shall include the identification of the equipment and
                                   point of emissions; the time, duration, and estimated quantity of emissions;
                                   the cause of and the remedy for the excess emissions; and the steps taken to
                                   limit the excess emissions in the interim period.]
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : IOWA
Region                     : 7
State Regulation Citation  : Title II, Chapter 23.3(3), Chapter 24, Chapter 25.1(8) and (9)
--------------------------------------------------------------------------------------------------
Applicable Area            : Counties of Black Hawk, Clinton, Des Moines, Dubuque, Jackson, Lee, Linn, Lousia,
                             Muscatine, and Scott
Applicable Time Frame      : Before   09/23/70
Facility Type              : Fuel burning units
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid fuel
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 6.0
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a, 2b1, 2c, 3a, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack sampling and
                                   associated analytical methods are those specified in the "Compliance
                                   Sampling Manual", adopted by the Commission on May 19, 1977.]
2b1.   Test Methods             => fuel testing: ASTM  [D-2015-66]
2c.    Test Methods             => other testing  [Emission tests and continuous monitoring performance tests
                                   may be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4g.    Averaging Time           => other  [Replicated maximum two hour average.]
5b.    Reporting                => state regulation  [24.1; An oral and written report of excess emissions made
                                   to the regional office shall include the identification of the equipment and
                                   point of emissions; the time, duration, and estimated quantity of emissions;
                                   the cause of and the remedy for the excess emissions; and the steps taken to
                                   limit the excess emissions in the interim period.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                     : IOWA
Region                    : 7
State Regulation Citation : Title II, Chapter 23.3(3), Chapter 24, Chapter 25.1(8) and (9)
--------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Before  09/23/70
Facility Type             : Fuel burning units
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Liquid fuel
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 2.5
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a, 2b1, 2c, 3a, 4g, 5a, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack testing and
                                   associated analytical methods are those specified in the "Compliance
                                   Sampling Manual", adopted by the Commission on May 19, 1977.]
2b1.   Test Methods             => fuel testing: ASTM  [D-2015-66]
2c.    Test Methods             => other testing  [Emission tests and continuous monitoring perofrmance tests
                                   may be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4g.    Averaging Time           => other  [Replicated maximum two hour average.]
5a.    Reporting                => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [24.1; An oral and written report of excess emissions made
                                   to the regional office shall include the identification of the equipment and
                                   point of emissions; the time, duration, and estimated quantity of emissions;
                                   the cause of and the remedy for the excess emissions; and the steps taken to
                                   limit the excess emissions in the interim period.]
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : IOWA
Region                     : 7
State Regulation Citation : Title II, Chapter 23.1(2), Chapter 24, Chapter 25.1(8) and (9)
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/23/70
Facility Type              : Fuel burning units
Facility Size (MMBtu/hr)   : Less than or equal to 250.0
Fuel Type                  : Solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 6.0
------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2a, 2b1, 2c, 3a, 4g, 5a, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Stack testing and
                                   associated analytical methods are those specified in the "Compliance
                                   Sampling Manual", adopted by the Commission on May 19, 1977.]
2b1.   Test Methods             => fuel testing: ASTM  [D-2015-66]
2c.    Test Methods             => other testing  [Emission tests and continuous monitoring perofrmance tests
                                   may be required.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4g.    Averaging Time           => other  [Replicated maximum two hour average.]
5a.    Reporting                => specified in 40 CFR Part 60
5b.    Reporting                => state regulation  [24.1; An oral and written report of excess emissions made
                                   to the regional office shall include the identification of the equipment and
                                   point of emissions; the time, duration and estimated quantity of emissions;
                                   the cause of and the remedy for the excess emissions; and the steps taken to
                                   limit the excess emissions in the interim period.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : KANSAS
Region                     : 7
State Regulation Citation : Title 28, Article 19, Part 4, Sections 30 and 31
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : Indirect heating equipment excluding exempted sources (1)
Facility Size (MMBtu/hr)  : Greater than or equal to 250
Fuel Type                  : All fuel, excluding refuse
------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.5
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2b1 or 2b2 or 2c, 3a, 4c, 5a, 5b, 5e
1e.   Heat Input Determination => other  [The equipment manufacturer's or designer's guaranteed maximum input
                                  whichever is greater, of the aggregate heat content of all fuels whose
                                  products of combustion pass through a stack or stacks.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 20]
2b1.  Test Methods             => fuel testing: ASTM  [D-271-64 or D-2015-66 (coal or coke)]
2b2.  Test Methods             => fuel testing: ASTM  [D-240-64 (oil)]
2c.   Test Methods             => other testing  [or other recognized method as approved by the department]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Excluding fossil-fuel fired steam generators
                                  whose annual capacity factor is limited by permit conditions to be less than
                                  thirty percent.]
4c.   Averaging Time           => 3 hours
5a.   Reporting                => specified in 40 CFR Part 60
5b.   Reporting                => state regulation  [28-19-19(k); A quarterly report of excess emissions shall
                                  include the total time the unit operated; the date, time, and magnitude of
                                  emissions; data reductions; the nature and cause of excess emissions;
                                  corrective action taken and preventive measures adopted; the date, time,
                                  nature and cause of CEMs breakdown; repairs or corrections to the CEMs (may
                                  require proof); performance audit results; and if no excess emissions have
                                  occurred or the CEMs have not required corrective actions, a statement
                                  verifying that fact.]
5e.   Reporting                => other  [A quality assurance plan will be submitted thirty days prior to the
                                  commencement of CEMs performance tests.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   Exempted sources are indirect heating equipment in electric generating plants that were existing on
      January 1, 1972 in areas that have been identified as meeting the national primary ambient air quality
      standard for SO2, and are capable of being fueled by coal.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------
State                     : MISSOURI
Region                    : 7
State Regulation Citation : Title 10, Division 10, Chapter 3, Section .150 and Chapter 6
----------------------------------------------------------------------------------------------
Applicable Area           : Statewide excluding the city of St. Louis, and the counties of St. Charles, St.
                            Louis, Jefferson, Franklin, Clay, Cass, Buchanan, Ray, Jackson, Platte, and
                            Greene.
Applicable Time Frame     : After    02/24/71
Facility Type             : Indirect Heating Sources
Facility Size (MMBtu/hr)  : Greater than or equal to 0.35
Fuel Type                 : All fossil fuels
----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : Less than or equal to 8.0 (1)
----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1d, 1e, 2a, 2b1 or 2c, 3e, 4c, 5e
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)
1e.    Heat Input Determination => other  [Determined by multiplying the heating value of the fuel by the
                                   amount of fuel burned during the source test period.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.   Test Methods             => fuel testing: ASTM  [D-2015-66 (solid) or D-240-64 (liquid)]
2c.    Test Methods             => other testing  [Alternative sampling methods may be used with Director
                                   approval.]
3e.    Monitoring Requirements  => other  [As specified by the Director.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Not specified.]
----------------------------------------------------------------------------------------------
Footnotes:
(1)    The following sources shall limit their average sulfur emissions to the amount indicated:  Associated
       Electric Cooperative New Madrid, less than 10.0 lbs SO2/MMBtu; Associated Electric Cooperative Thomas
       Hill Units 1 and 2, and University of Missouri Columbia, less than 8.0 lbs SO2/MMBtu; Central Electric
       Power Cooperative Chalmois Plant, less than 6.7 lbs SO2/MMBtu; Empire District Electric Company Asbury
       Station, less than 12.0 lbs SO2/MMBtu; Kansas City Power and Light Company Montrose Station, less than
       12.9 lbs SO2/MMBtu
----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                     : MISSOURI
Region                    : 7
State Regulation Citation : Title 10, Division 10, Chapter 5, Section .110
-------------------------------------------------------------------------------------------
Applicable Area           : St. Louis Metropolitan Area (1)
Applicable Time Frame     : After    03/24/70
Facility Type             : Indirect heating sources
Facility Size (MMBtu/hr)  : Less than 2000
Fuel Type                 : Fuel oil and coal
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Less than or equal to 4.0 (2)
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c or 1e, 2b1 or 2c, 3a or 3e, 4c, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [Sum of the manufacturer's or designer's guaranteed maximum heat
                                  input rate of each indirect heating source.]
2b1.  Test Methods             => fuel testing: ASTM  [Heat content by D-240-64 (fuel oil) or D-2015-66 (coal)
                                  and percent sulfur by D-129-64 (fuel oil) or D-3177-75 (coal).]
2c.   Test Methods             => other testing  [As specified by the Director.]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3e.   Monitoring Requirements  => other  [As specified by the Director.]
4c.   Averaging Time           => 3 hours
5b.   Reporting                => state regulation  [10 CSR 10-5.110; A quarterly report of excess emissions.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)   The compliance date for sources located in Franklin County is Jan. 31, 1973.
(2)   Limitation allowed in the months of April, May, June, July, Aug., and Sept., only if it can be shown
      that the source can not attain the 2.3 lbs. SO2 per million BTU emission limit.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                      : MISSOURI
Region                     : 7
State Regulation Citation  : Title 10, Division 10, Chapter 5, Section .110
--------------------------------------------------------------------------------
Applicable Area            : St. Louis Metropolitan Area (1)
Applicable Time Frame      : After    03/24/70
Facility Type              : Indirect heating sources
Facility Size (MMBtu/hr)   : Less than 2000
Fuel Type                  : Fuel oil and coal
--------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 2.0 (2)
--------------------------------------------------------------------------------
Compliance Procedures          :: 1c, 1e, 2b1 or 2c, 3a or 3e, 4c, 5b
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1e.   Heat Input Determination => other  [Sum of the manufacturer's or designer's guaranteed maximum heat
                                  input rate of each indirect heating source.]
2b1.  Test Methods             => fuel testing: ASTM  [Heat content by D-240-64 (fuel oil) or D-2015-66 (coal)
                                  and percent sulfur by D-129-64 (fuel oil) or D-3177-75 (coal).]
2c.   Test Methods             => other testing  [As specified by the Director.]
3a.   Monitoring Requirements  => continuous SO2 monitoring
3e.   Monitoring Requirements  => other  [As specified by the Director.]
4c.   Averaging Time           => 3 hours
5b.   Reporting                => state regulation  [10 CSR 10-5.110; A quarterly report of excess emissions.]
--------------------------------------------------------------------------------
Footnotes:
(1)   The compliance date for sources located in Franklin County is Jan. 31, 1973.
(2)   Limitation allowed in the months of Oct., Nov., Dec., Jan., Feb., and March, only if it can be shown
      that the source can not attain the 2.3 lbs SO2 per million BTU emission limit.
--------------------------------------------------------------------------------
```

SO2 Regulation Report

State : MISSOURI
Region : 7
State Regulation Citation : Title 10, Division 10, Chapter 5, Section .110

Applicable Area : St. Louis Metropolitan Area
Applicable Time Frame : After 03/24/70
Facility Type : Indirect heating sources
Facility Size (MMBtu/hr) : Greater than or equal to 2000
Fuel Type : Fuel oil and coal

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 2.3 (1)

Compliance Procedures :: 1c, 1e, 2b1 or 2c, 3a or 3e, 4c, 5b
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
1e. Heat Input Determination => other [The sum of the manufacturer's or designer's guaranteed maximum heat input rate of each indirect heating sources.]
2b1. Test Methods => fuel testing: ASTM [Heat content by D-240-64 (fuel oil) or D-2015-66 (coal) and percent sulfur by D-129-64 (fuel oil) or D-3177-75 (coal).]
2c. Test Methods => other testing [As specified by the Director.]
3a. Monitoring Requirements => continuous SO2 monitoring
3e. Monitoring Requirements => other [As specified by the Director.]
4c. Averaging Time => 3 hours
5b. Reporting => state regulation [10 CSR 10-5.110; A quarterly report of excess emissions.]

Footnotes:
(1) The following sources shall limit their average sulfur emissions to the amount indicated: Union Electric Labadie Plant and Portage des Sioux shall not emit more than 4.8 lbs SO2/MMBtu (daily average, 00:01 to 24:00).

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : MISSOURI
Region                     : 7
State Regulation Citation : Title 10, Division 10, Chapter 2, Section .200
------------------------------------------------------------------------------------------------
Applicable Area            : Kansas City Metropolitan Area (1)
Applicable Time Frame      : After    09/24/67
Facility Type              : Indirect heating sources
Facility Size (MMBtu/hr)   : Greater than or equal to 0.35
Fuel Type                  : All fossil fuels
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 8.0 (2)
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 2a, 2b1 or 2c, 3e, 4c, 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
2b1.  Test Methods             => fuel testing: ASTM  [D-2015-66 (solid) or D-240-64 (liquid)]
2c.   Test Methods             => other testing  [Alternative sampling methods may be used with director
                                  approval.]
3e.   Monitoring Requirements  => other  [As specified by the Director.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Not specified.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The compliance date for sources located in Buchanan County is Sept. 1, 1970.
(2)   The following sources shall limit their average sulfur emissions to the amount indicated:  Independence
      Power and Light, less than 6.3 lbs SO2/MMBtu; Kansas City Power and Light Grand Avenue Plant and the
      Missouri Public Service Plant, less then 9.0 lbs SO2/MMBtu; Kansas City Power and Light Hawthorn Plant,
      less than 6.1 lbs SO2/MMBtu; St. Joseph Light and Power Lake Road Plant, less than 8.6 lbs/MMBtu.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : MISSOURI
Region                     : 7
State Regulation Citation : Title 10, Division 10, Chapter 4, Section .190, and Chapter 6
--------------------------------------------------------------------------------------------
Applicable Area            : Springfield - Greene County
Applicable Time Frame      : After    09/24/71
Facility Type              : Indirect heating sources
Facility Size (MMBtu/hr)   : Greater than 0.35
Fuel Type                  : All fossil fuel
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 8.0 (1)
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1d, 1e, 2b1 or 2c, 3e, 4c, 5e
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)
1e.   Heat Input Determination => other  [Determined by multiplying the heating value of the fuel by the
                                  amount of fuel burned during the source test period.]
2b1.  Test Methods             => fuel testing: ASTM  [Heating value by D-2015-66 (solid) or D-240-64
                                  (liquid)]
2c.   Test Methods             => other testing  [Alternate test methods may be used with Director approval.]
3e.   Monitoring Requirements  => other  [Not specified.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Not specified.]
--------------------------------------------------------------------------------------------
Footnotes:
(1)   The following sources shall limit their average sulfur emissions to the amount indicated:  City
      Utilities James River Plant, less than 9.2 lbs SO2/MMBtu; City Utilites Southwest Plant, less than 1.2
      lbs SO2/MMBtu.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                      : NEBRASKA
Region                     : 7
State Regulation Citation  : Title 129, Chapters 4, 13, and 21
-------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   06/17/75
Facility Type              : Fuel burning devices used in indirect heating equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All fossil fuels
-------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 2.5
-------------------------------------------------------------------------------
Compliance Procedures           :: 1a or 1b, 1e, 2a, 3e, 4g, 5b
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
1e.   Heat Input Determination => other  [Rated or operating input capacity.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6]
3e.   Monitoring Requirements  => other  [Continuous emission monitoring may be required by the Director.]
4g.   Averaging Time           => other  [Two hour average.]
5b.   Reporting                => state regulation  [21.006; Records and reports regarding measured source
                                  emissions will be submitted in manner and on a schedule to be determined by
                                  the Director.]
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : COLORADO
Region                      : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, A
-----------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    09/11/77
Facility Type               : combustion turbines
Facility Size (MMBtu/hr)    : <300
Fuel Type                   : gaseous
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.2
-----------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.    Test Methods             => other testing  [Alternative method approved by the Division.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, A
-------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/11/77
Facility Type              : combustion turbines
Facility Size (MMBtu/hr)   : >=300
Fuel Type                  : gaseous
-------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
-------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination  => unit design rated (MMBtu/hr)
2a.   Test Methods              => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and 8; 40 CFR
                                   60.275, Appendix A, Part 60.]
2c.   Test Methods              => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements   => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time            => 3 hours
5e.   Reporting                 => other  [Quarterly reports.]
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, A
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   09/11/77
Facility Type              : combustion turbine
Facility Size (MMBtu/hr)   : <300
Fuel Type                  : gaseous
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and MEthod 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.    Test Methods             => other testing  [Alternative method approved by the Division.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, A
--------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   09/11/77
Facility Type              : combustion turbine
Facility Size (MMBtu/hr)   : >=300
Fuel Type                  : gaseous
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.    Test Methods             => other testing  [Alternative method approved by the Division.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, B
-------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/11/77
Facility Type              : combustion turbine
Facility Size (MMBtu/hr)   : >=250
Fuel Type                  : natural gas
-------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.35
-------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
-------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, A
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   09/11/77
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <300
Fuel Type                  : oil
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.5
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, A
--------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   09/11/77
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >=300
Fuel Type                  : oil
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
--------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : COLORADO
Region                      : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, B
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    09/11/77
Facility Type               : oil burning installations including combustion turbines
Facility Size (MMBtu/hr)    : <250
Fuel Type                   : oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 0.8
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, B
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/11/77
Facility Type              : oil burning installations excluding combustion turbines
Facility Size (MMBtu/hr)   : >=250
Fuel Type                  : oil
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.3
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.    Test Methods             => other testing  [Alternative method approved by the Division.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------
State                     : COLORADO
Region                    : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, A
--------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Before   09/11/77
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : <300
Fuel Type                 : coal (1)
--------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)            : 1.8
--------------------------------------------------------------------------------
Compliance Procedures             :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                   40 CFR 60.275, Appendix A, Part 60]
2c.    Test Methods             => other testing  [Alternative method approved by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
--------------------------------------------------------------------------------
Footnotes:
(1)    These standards are also applicable to the use of coal-based by-product fuels.
--------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation  : Colorado Air Pollution Regulation 1, Section VI, A
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   09/11/77
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : =>300
Fuel Type                  : coal (1)
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1a, 2a or 2c, 3a, 4c, 5e
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and MEthod 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.    Test Methods             => other testing  [Alternative method approved by the Division.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.    Averaging Time           => 3 hours
5e.    Reporting                => other  [Quarterly reports.]
-------------------------------------------------------------------------------------------
Footnotes:
(1)    These standards are also applicable to the use of coal-based by-product fuels.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, B
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/11/77
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : <250
Fuel Type                  : coal
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.2
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : COLORADO
Region                     : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, B
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    09/11/77
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)  : >=250
Fuel Type                  : coal
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.4
----------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8,
                                  40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : COLORADO
Region                      : 8
State Regulation Citation : Colorado Air Pollution Regulation 1, Section VI, B
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    09/11/77
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : all
Fuel Type                   : all sources converted from other fuels to coal
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.2
------------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2a or 2c, 3a, 4c, 5e
1a.   Heat Input Determination => unit design rated (MMBtu/hr)
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods 1-4 and Method 8;
                                   40 CFR 60.275, Appendix A, Part 60.]
2c.   Test Methods             => other testing  [Alternative method approved by the Division.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for sources greater than 250 MMBtu/hr.]
4c.   Averaging Time           => 3 hours
5e.   Reporting                => other  [Quarterly reports.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : MONTANA
Region                     : 8
State Regulation Citation : Montana Air Quality Regulations 16.8.820
-----------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.50
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2c, 3b, 4b, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2c.    Test Methods             => other testing  [Pararosaniline, 40 CFR Part 50 (Appendix A) or by an
                                   approved equivalent method]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
4b.    Averaging Time           => 1 hour  [Not to be exceeded more than 18 times in any 12 consecutive months]
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : MONTANA
Region                    : 8
State Regulation Citation : Montana Air Quality Regulations 16.8.820
------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : fuel burning installations
Facility Size (MMBtu/hr)  : all
Fuel Type                 : all
------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                 : 0.10
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2c, 3b, 4d, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2c.    Test Methods             => other testing  [Pararosaniline, 40 CFR Part 50 (Appendix A) or by an
                                   approved equivalent method]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
4d.    Averaging Time           => 24 hours  [Not to be exceeded more than once per year]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : MONTANA
Region                     : 8
State Regulation Citation : Montana Air Quality Regulations 16.8.820
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-----------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : 0.02
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2c, 3b, 4g, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2c.    Test Methods             => other testing  [Pararosaniline, 40 CFR Part 50 (Appendix A) or by an
                                   approved equivalent method]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimete
4g.    Averaging Time           => other  [Annual, not to be exceeded]
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                      : MONTANA
Region                     : 8
State Regulation Citation : Montana Air Quality Regulations 16.8.1411
---------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : Greater than 1
Fuel Type                  : liquid or solid
---------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : 1.0 (1)
---------------------------------------------------------------------------------------------
Compliance Procedures           :: 1b, 2c, 3c, 3e, 4g, 5b, 5d
1b.    Heat Input Determination => unit actual or operating (MMBtu/hr)
2c.    Test Methods             => other testing  [Methods approved by the Department]
3c.    Monitoring Requirements  => sulfur content of fuel
3e.    Monitoring Requirements  => other  [Upon application to the Director, an SO2 control process may be used
                                   if the resulting emissions of sulfur do not exceed 1.0 lbs per hour.]
4g.    Averaging Time           => other  [Specified by the Director]
5b.    Reporting                => state regulation  [16.8.704]
5d.    Reporting                => specified by the Director
---------------------------------------------------------------------------------------------
Footnotes:
(1)    A higher sulfur containing fuel may be used if, when mixed with one or more lower sulfur containing
       fuels, the equivalent sulfur content is not in excess of 1.0 lb SO2/MMBtu when fired.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : MONTANA
Region                     : 8
State Regulation Citation : Montana Air Quality Regulations 16.8.1411
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    07/01/72
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : Greater than 1
Fuel Type                  : gaseous
-------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : See footnote. (1)
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1b, 2c, 3c, 4g, 5d
1b.   Heat Input Determination => unit actual or operating (MMBtu/hr)
2c.   Test Methods             => other testing  [Methods approved by the Department]
3c.   Monitoring Requirements  => sulfur content of fuel
4g.   Averaging Time           => other  [Specified by the Director]
5d.   Reporting                => specified by the Director
-------------------------------------------------------------------------------------------
Footnotes:
(1)   50 grains H2S per 100 cubic feet, calculated at standard conditions.  This does not apply to 1) the
      burning of sulfur, hydrogen sulfide, acid sludge, or other sulfur compounds in the manufacturing of
      sulfur compounds; 2) the incineration of waste gases if the gross heating value of such gases is less
      than 300 Btu/cubic feet and the fuel used to incinerate such waste gases does not contain sulfur or
      sulfur compounds in excess of 50 grains per 100 cubic feet; or 3) the use of fuels where the gaseous
      products of combustion are used as raw materials for other processes.
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : NORTH DAKOTA
Region                     : 8
State Regulation Citation : North Dakota NSPS, Chapter 33-15-06-1
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all fossil
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.0
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a or 2c, 3c, 4a, 5a
1e.    Heat Input Determination => other  [Manufacturer's or designer's guaranteed maximum heat input rate.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6.]
2c.    Test Methods             => other testing  [Other methods as approved by the Department.]
3c.    Monitoring Requirements  => sulfur content of fuel
4a.    Averaging Time           => specified in 40 CFR Part 60
5a.    Reporting                => specified in 40 CFR Part 60
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : SOUTH DAKOTA
Region                     : 8
State Regulation Citation : South Dakota Air Pollution Rules, Chapter 74:26:07
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : all
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 3.0
-------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2a or 2c, 3e, 4a, 5d
1a.    Heat Input Determination => unit design rated (MMBtu/hr)  [or unit manufacturer rates, whichever heat
                                   input value is greater]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
2c.    Test Methods             => other testing  [Specified by the Director]
3e.    Monitoring Requirements  => other  [Not specified]
4a.    Averaging Time           => specified in 40 CFR Part 60
5d.    Reporting                => specified by the Director
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : UTAH
Region                      : 8
State Regulation Citation : Utah Air Laws, Part IV, Section 4.2
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : fuel burning installations
Facility Size (MMBtu/hr)    : all
Fuel Type                   : oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)                : Less than or equal to 0.85
------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2a, 2b1, 3c, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2a.   Test Methods               => source testing (as specified in 40 CFR Part 60)
2b1.  Test Methods               => fuel testing: ASTM  [Mandatory testing, using the applicable ASTM method,
                                    performed at least once every five years or as requested by the Executive
                                    Secretary.]
3c.   Monitoring Requirements    => sulfur content of fuel
3e.   Monitoring Requirements    => other  [If an exemption is granted, monitoring devices used shall be
                                    approved by the Executive Secretary.]
4g.   Averaging Time             => other  [Specified by the Executive Secretary.]
5e.   Reporting                  => other  [Specified by the Executive Secretar
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                      : UTAH
Region                     : 8
State Regulation Citation : Utah Air Laws, Part IV, Section 4.2
-------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : all
Fuel Type                  : coal
-------------------------------------------------------------------------------------------
Emissions Limits:
(lb S/MMBtu)               : Less than or equal to 1.0
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2b1, 3c, 3e, 4g, 5e
1e.    Heat Input Determination => other  [Not specified.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
2b1.   Test Methods             => fuel testing: ASTM  [Mandatory testing, using the applicable ASTM method,
                                   performed at least once every five years or as requested the Executive
                                   Secretary]
3c.    Monitoring Requirements  => sulfur content of fuel
3e.    Monitoring Requirements  => other  [If an exemption is granted, monitoring devices used shall be
                                   approved by the Executive Secretary.]
4g.    Averaging Time           => other  [Specified by the Executive Secretary.]
5e.    Reporting                => other  [Specified by the Director.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                    : WYOMING
Region                   : 8
State Regulation Citation : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
--------------------------------------------------------------------------------------------------
Applicable Area          : Statewide
Applicable Time Frame    : Before   01/01/74
Facility Type            : fuel burning installations
Facility Size (MMBtu/hr) : >250 and <=2500
Fuel Type                : coal
--------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)           : Less than or equal to 1.2 (1)
--------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c or 1d, 2a or 2c, 3e, 4g, 5b or 5d
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                   greater.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                   using the two hour fixed averaging method.]
2c.    Test Methods             => other testing  [An equivalent method may be approved when using the two hour
                                   fixed averaging method.]
3e.    Monitoring Requirements  => other  [Specified by the Director.]
4g.    Averaging Time           => other  [Two hour or equivalent.]
5b.    Reporting                => state regulation  [22(j); Reporting requirement for the CEM option.]
5d.    Reporting                => specified by the Director
--------------------------------------------------------------------------------------------------
Footnotes:
(1)    A combination of a thirty day rolling average of 1.2 lb SO2/MMBtu and a three hour fixed average of 1.2
       lb SO2/MMBtu may be used as an averaging method.  Written notice to the Administrator is required.  The
       three hour fixed average maximum is not to be exceeded more than once per year.  Compliance with this
       option must be demonstrated by CEM.
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : WYOMING
Region                     : 8
State Regulation Citation : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   01/01/74
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >2,500 and <=5,000
Fuel Type                  : coal
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 0.5 (1)
----------------------------------------------------------------------------------------------------
Compliance Procedures              :: 1c or 1d, 2a or 2c, 3e, 4g, 5b or 5d
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                   greater.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                   using the two hour fixed averaging method.]
2c.    Test Methods             => other testing  [An equivalent method may be approved when using the two hour
                                   fixed averaging method.]
3e.    Monitoring Requirements  => other  [Specified by the Director.]
4g.    Averaging Time           => other  [Two hour or equivalent.]
5b.    Reporting                => state regulation  [22(j); Reporting requirements for the CEM option.]
5d.    Reporting                => specified by the Director
----------------------------------------------------------------------------------------------------
Footnotes:
(1)    A combination of a thirty day rolling average of 0.5 lb SO2/MMBtu and a three hour fixed average of 1.12
       lb SO2/MMBtu may be used as an averaging method.  Written notice to the Administrator is required.  The
       three hour fixed average maximum is not to be exceeded more than once per year.  Compliance with this
       option must be demonstrated by CEM.
----------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : WYOMING
Region : 8
State Regulation Citation : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4

Applicable Area : Statewide
Applicable Time Frame : Before 01/01/74
Facility Type : fuel burning installations
Facility Size (MMBtu/hr) : >5,000
Fuel Type : coal

Emissions Limits:
(lb SO2/MMBtu) : Less than or equal to 0.3 (1)

Compliance Procedures :: 1c or 1d, 2a or 2c, 3e, 4g, 5b or 5d
1c. Heat Input Determination => total plant design rated (MMBtu/hr)
1d. Heat Input Determination => total plant actual or operating (MMBtu/hr) [Whichever heat input value is greater.]
2a. Test Methods => source testing (as specified in 40 CFR Part 60) [Method 6 is required when using the two hour fixed averaging method.]
2c. Test Methods => other testing [An equivalent method may be approved when using the two hour fixed averaging method.]
3e. Monitoring Requirements => other [Specified by the Director.]
4g. Averaging Time => other [Two hour or equivalent.]
5b. Reporting => state regulation [22(j); Reporting requirements for the CEM option.]
5d. Reporting => specified by the Director

Footnotes:
(1) A combination of a thirty day rolling average of 0.3 lb SO2/MMBtu and a three hour fixed average of 0.65 lb SO2/MMBtu may be used as an averaging method. Written notice to the Administrator is required. The three hour fixed average maximum is not to be exceeded more than once per year. Compliance with this option must be demonstrated by CEM.

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : WYOMING
Region                     : 8
State Regulation Citation : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
--------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/01/85
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >=250
Fuel Type                  : coal
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.2 (30-day rolling average) and 0.45 (3-hour fixed average)
--------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c or 1d, 2a or 2c, 3a, 4c or 4g, 5b or 5e
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                  greater.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                  using the three hour averaging method.]
2c.   Test Methods             => other testing  [An equivalent method may be approved when using the three
                                  hour averaging method.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for the thirty day rolling average
                                  method.]
4c.   Averaging Time           => 3 hours  [Fixed average.] (1)
4g.   Averaging Time           => other  [Thirty day rolling average.]
5b.   Reporting                => state regulation  [22(j);  Reporting requirements for the CEM option.]
5e.   Reporting                => other
--------------------------------------------------------------------------------------------
Footnotes:
(1)   The maximum 3-hour SO2 emission rate is not to be exceeded more than once per calendar year.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : WYOMING
Region                     : 8
State Regulation Citation : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/01/85
Facility Type              : fuel burning installations
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : oil
------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8 (30-day rolling average and 3-hour fixed average).
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1c or 1d, 2a or 2c, 3a, 4c, 4g, 5b or 5d
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                   greater.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                   using the three hour averaging method.]
2c.    Test Methods             => other testing  [An equivalent method may be approved when using the three
                                   hour averaging method.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for the thirty day rolling average
                                   method.]
4c.    Averaging Time           => 3 hours  [Fixed average.] (1)
4g.    Averaging Time           => other  [Thirty day rolling average.]
5b.    Reporting                => state regulation  [22(j); Reporting requirements for the CEM option.]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The maximum three hour SO2 emission rate is not to be exceeded more than once per calendar year.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : WYOMING
Region                     : 8
State Regulation Citation  : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/01/74
Facility Type              : fuel burning installations (1)
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : oil
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.8
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1c or 1d, 2a or 2c, 3a, 4g, 5b or 5d
1c.    Heat Input Determination => total plant design rated (MMBtu/hr)
1d.    Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                   greater.]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                   using the two hour fixed averaging method.]
2c.    Test Methods             => other testing  [An equivalent method may be approved when using the two hour
                                   fixed averaging method.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for the thirty day rolling average
                                   mehtod.]
4g.    Averaging Time           => other  [Two hour fixed average.]
5b.    Reporting                => state regulation  [22(j); Reporting requirements for the CEM option.]
5d.    Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)    This regulation applies to units existing prior to 01/01/85.
(2)    A combination of a thirty day rolling average of 0.8 lb SO2/MMBtu and a three hour fixed average of 0.8
       lb SO2/MMBtu may be used as an averaging method.  Written notice to the Administrator is required.  The
       three hour fixed average maximum is not to be exceeded more than once per year.  Compliance with this
       option must be demonstrated by CEM.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : WYOMING
Region                     : 8
State Regulation Citation  : Wyoming Air Quality Standards and Regulations, Chapter 1, Section 4
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/01/74
Facility Type              : fuel burning installations (1)
Facility Size (MMBtu/hr)   : >250
Fuel Type                  : coal
----------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 0.2
----------------------------------------------------------------------------------------------------
Compliance Procedures         :: 1c or 1d, 2a or 2c, 3a, 4g, 5b or 5d
1c.   Heat Input Determination => total plant design rated (MMBtu/hr)
1d.   Heat Input Determination => total plant actual or operating (MMBtu/hr)  [Whichever heat input value is
                                  greater.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Method 6 is required when
                                  using the two hour fixed averaging method.]
2c.   Test Methods             => other testing  [An equivalent method may be approved when using the two hour
                                  fixed averaging method.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for the thirty day rolling average
                                  method.]
4g.   Averaging Time           => other  [Two hour fixed average.]
5b.   Reporting                => state regulation  [22(j); Reporting requirement for the CEM option.]
5d.   Reporting                => specified by the Director
----------------------------------------------------------------------------------------------------
Footnotes:
(1)   This regulation applies to units existing prior to 01/01/85.
(2)   A combination of a thirty day rolling average of 0.2 lb SO2/MMBtu and a three hour fixed average of 0.45
      lb SO2/MMBtu may be used.  Written notice to the Administrator is required.  The three hour fixed
      average maximum is not to be exceeded more than once per year.  Compliance with this option must be
      demonstrated by CEM.
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : ARIZONA
Region                     : 9
State Regulation Citation  : R18-2-503
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   05/14/79
Facility Type              : Fossil-fuel fired steam generators and general fuel burning devices
Facility Size (MMBtu/hr)   : Greater than or equal to 249 (73 MW)
Fuel Type                  : Low sulfur oil and solid fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than 0.90, by weight.
(lb SO2/MMBtu)             : Less than or equal to 1.0
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b1, 2c, 3a, 3e, 4c, 5b
1e.    Heat Input Determination => other  [The total heat input of all fuel burning units operated at the
                                   nominal rated capacity of each unit.]
2b1.   Test Methods             => fuel testing: ASTM  [D-3176-74 and D-2015]
2c.    Test Methods             => other testing  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3e.    Monitoring Requirements  => other  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [R18-2-314; Report of excess emissions identifying the
                                   source and magnitude of emissions, the time, duration, nature, cause, and
                                   remedy for the excess emissions.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------------
State                       : ARIZONA
Region                      : 9
State Regulation Citation : R18-2-503
--------------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Before   05/14/79
Facility Type               : Fossil-fuel fired steam generators and general fuel burning devices
Facility Size (MMBtu/hr)    : Greater than or equal to 249 (73 MW)
Fuel Type                   : High sulfur oil (1)
--------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Greater than or equal to 0.90, by weight
(lb SO2/MMBtu)              : Less than or equal to 2.2
--------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2b1, 2c, 3a, 3e, 4c, 5b
1e.    Heat Input Determination => other  [The total heat input of all fuel burning units operated at the
                                   nominal rated capacity of each unit.]
2b1.   Test Methods             => fuel testing: ASTM  [D-3176-74 and D-2015]
2c.    Test Methods             => other testing  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3e.    Monitoring Requirements  => other  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [R18-2-314; Report of excess emissions identifying the
                                   source and magnitude of emissions, the time, duration, nature, cause, and
                                   remedy for the excess emissions. R18-2-503.2.f; Monthly reports submitted to
                                   the Director detailing the efforts to obtain low sulfur fuel.]
--------------------------------------------------------------------------------------------------
Footnotes:
(1)   Director approval required to use high sulfur oil.
--------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
---------------------------------------------------------------------------------------------
State                       : ARIZONA
Region                      : 9
State Regulation Citation : R18-2-503, R18-2-309 through R18-2-314
---------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    05/14/79
Facility Type               : Fossil-fuel fired steam generators and general fuel burning devices
Facility Size (MMBtu/hr)   : Greater than or equal to 249 (73 MW)
Fuel Type                   : Low sulfur oil and solid fuel (1)
---------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than 0.90, by weight
(lb SO2/MMBtu)              : Less than or equal to 0.80
---------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2b1, 2c, 3a, 3e, 4c, 5b
1e.    Heat Input Determination => other  [The total heat input of all fuel burning units operated at the
                                   nominal rated capacity of each unit.]
2b1.   Test Methods             => fuel testing: ASTM  [D-3176-74 and D-2015]
2c.    Test Methods             => other testing  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring
3e.    Monitoring Requirements  => other  [Specified in the "Arizonia Testing Manual for Air Pollution
                                   Emissions", or equivalent methods approved by the Director.]
4c.    Averaging Time           => 3 hours
5b.    Reporting                => state regulation  [R18-2-314; Report of excess emissions identifying the
                                   source and magnitude of emissions, the time, duration, nature, cause and
                                   remedy for the excess emissions.]
---------------------------------------------------------------------------------------------
Footnotes:
(1)    Director approval required to use high sulfur oil.
---------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                     : CALIFORNIA
Region                    : 9
State Regulation Citation : R-1-520, R-1-522, and R-9-1-304
------------------------------------------------------------------------------------------
Applicable Area           : Bay Area Air Quality Management District
Applicable Time Frame     : Global
Facility Type             : Not specified
Facility Size (MMBtu/hr)  : Not specified
Fuel Type                 : Liquid fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Less than or equal to 0.5, by weight
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b4, 2c, 3a, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not specified]
2b4.  Test Methods             => fuel testing: other  [Sulfur content of fuels by Method 10, in the "Manual
                                  of Procedures, Volume III", amended 3/17/82.]
2c.   Test Methods             => other testing  [Sampling and analysis of gas streams as specified in the
                                  "Manual of Procedures, Volume III", amended 3/17/82.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                  thirty percent and utilizing flue gas desulfurization.]
3e.   Monitoring Requirements  => other  [Emission monitoring requirements as specified in the "Manual of
                                  Procedures, Volume V", amended 3/17/82.]
4g.   Averaging Time           => other  [Specified in the "Manual of Procedures, Volume IV", amended
                                  3/17/82.]
5e.   Reporting                => other  [District regulation 1, section 500.]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation : R-9-1-304
------------------------------------------------------------------------------------------
Applicable Area            : Bay Area Air Quality Management District
Applicable Time Frame      : Global
Facility Type              : Not specified
Facility Size (MMBtu/hr)   : Not specified
Fuel Type                  : Solid fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : Less than or equal to 300
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 3e, 4g, 5e
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [Sampling and analysis of gas streams as specified in the
                                  "Manual of Procedures, Volume III", amended 3/17/82.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                  thirty percent and utilizing flue gas desulfurization.]
3e.   Monitoring Requirements  => other  [Emission monitoring requirements as specified in the "Manual of
                                  Procedures, Volume V", amended 3/17/82.]
4g.   Averaging Time           => other  [Specified in the "Manual of Procedures, Volume IV", amended
                                  3/17/82.]
5e.   Reporting                => other  [District regulation 1, section 500]
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : CALIFORNIA
Region                      : 9
State Regulation Citation : District rules 104, 218, and 431.2
------------------------------------------------------------------------------------------
Applicable Area             : South Coast Air Quality Management District (1)
Applicable Time Frame       : Global
Facility Type               : All sources excluding electric power plant steam generators
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Liquid fossil fuels excluding diesel fuel number 1-D, or 2-D
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than or equal to 0.5, by weight (2)
------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified in the District regulations.]
2c.    Test Methods             => other testing  [Source tests according to the methods adopted by the
                                   District, or methods determined by the Air Pollution Control Officer to be
                                   equivalent.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                   thirty percent and utilizing flue gas desulfurization.]
4g.    Averaging Time           => other  [Not specified in the District regulations.]
5e.    Reporting                => other  [District Rule 104; Test data and analytical results are calculated
                                   and reported at standard conditions.  District Rule 218(e); A monthly
                                   summary of emission data, and a report of excess emissions or monitoring
                                   system failure within 96 hours after the occurrence shall include the date,
                                   time, magnitude, nature, cause, and corrective action taken.]
------------------------------------------------------------------------------------------
Footnotes:
(1)    The following counties have rules that preceded the SCAQMD rules:  Los Angeles, Orange, Riverside, and
       San Bernandino.
(2)    Fuel with a higher sulfur content may be used if it can be demonstrated that the sulfur emissions would
       be no greater than when using a fuel which conplies with this standard.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation  : District rules 104, 218, and 431.2
-----------------------------------------------------------------------------------------
Applicable Area            : South Coast Air Quality Management District (1)
Applicable Time Frame      : Global
Facility Type              : Not specified
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Diesel fuel number 1-D, or 2-D
-----------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 0.05, by weight (2)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified in the District regulations.]
2c.   Test Methods             => other testing  [Source tests according to the methods adopted by the
                                  District, or methods determined by the Air Pollution Control Officer to be
                                  equivalent.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                  thirty percent and utilizing flue gas desulfurization.]
4g.   Averaging Time           => other  [Not specified in the District regulations.]
5e.   Reporting                => other  [District Rule 104; Test data and analytical results are calculated
                                  and reported at standard conditions.  District Rule 218(e); A monthly
                                  summary of emission data, and a report of excess emissions or monitoring
                                  system failure within 96 hours after the occurrence shall include the date,
                                  time, magnitude, nature, cause, and corrective action taken.]
-----------------------------------------------------------------------------------------
Footnotes:
(1)   The following counties have rules that preceded the SCAQMD rules:  Los Angeles, Orange, Riverside, and
      San Bernandino.
(2)   Fuel with a higher sulfur content may be used if it can be demonstrated that the sulfur emissions would
      be no greater than when using a fuel which conplies with this standard.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation : District rules 104, 218, and 431.3
------------------------------------------------------------------------------------------
Applicable Area            : South Coast Air Quality Management District (1)
Applicable Time Frame      : Global
Facility Type              : Not specified
Facility Size (MMBtu/hr)  : All
Fuel Type                  : Solid fossil fuel
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than of equal to 0.56
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified in the District regulations.]
2c.   Test Methods             => other testing  [Source tests according to the methods adopted by the
                                  District, or method determined by the Air Pollution Control Officer to be
                                  equivalent.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                  thirty percent and utilizing flue gas desulfurization.]
4g.   Averaging Time           => other  [Not specified in the District regulations.]
5e.   Reporting                => other  [District Rule 104;  Test data and analytical results are calculated
                                  and reported at standard conditions.  District Rule 218(e);  A monthly
                                  summary of emission data, and a report of excess emissions or monitoring
                                  system failure within 96 hours after the occurrence shall include the date,
                                  time, magnitude, nature, cause, and corrective action taken.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   The following counties have rules that precede the SCAQMD rules: Los Angeles, Orange, Riverside, and San
      Bernardino.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation : District rules 104, 218, and 431.1
------------------------------------------------------------------------------------------------
Applicable Area            : South Coast Air Quality Management District (1)
Applicable Time Frame      : Global
Facility Type              : Not specifeid
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Gaseous fuels excluding landfill gas and sewage digester gas
------------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : Less than or equal to 80, calculated as H2S, or (2)
------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4g, 5e
1e.   Heat Input Determination => other  [Not specified in the District regulations.]
2c.   Test Methods             => other testing  [Source tests according to the methods adopted by the
                                  District, or methods determined by the Air Pollution Control Officer to be
                                  equivalent.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                  with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                  thirty percent and utilizing flue gas desulfurization.]
4g.   Averaging Time           => other  [Not specified in the District regulations.]
5e.   Reporting                => other  [District Rule 104; Test data and analytical results are calculated
                                  and reported at standard conditions.  District Rule 218(e); A monthly
                                  summary of emission data, and a report of excess emissions or monitoring
                                  system failure within 96 hours after the occurrence shall include the time,
                                  date, magnitude, nature, cause, and corrective action taken.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   The following counties have rules that precede the SCAQMD rules: Los Angeles, Orange, Riverside, and San
      Bernadino.
(2)   Sources emitting less than thirty lb/day, calculated as H2S, are exempt from the rule.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation  : District rules 104, 218, and 431.2
------------------------------------------------------------------------------------------------------
Applicable Area            : South Coast Air Quality Management District (1)
Applicable Time Frame      : Global
Facility Type              : Electric power plant steam generators
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid fossil fuels excluding diesel fuel number 1-D, or 2-D
------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 0.25, by weight (2)
------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 4g, 5e
1e.    Heat Input Determination => other  [Not specified in the District regulations.]
2c.    Test Methods             => other testing  [Source tests according to the methods adopted by the
                                   District, or methods determined by the Air Pollution Control Officer to be
                                   equivalent.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [Required for fossil fuel fired steam generators
                                   with a heat input of 250 MMBtu/hr or more and a use factor of at least
                                   thirty percent and utilizing flue gas desulfurization.]
4g.    Averaging Time           => other  [Not specified in the District regulations.]
5e.    Reporting                => other  [District Rule 104; Test data and analytical results are calculated
                                   and reported at standard conditions.  District Rule 218(e); A monthly
                                   summary of emission data, and a report of excess emissions or monitoring
                                   system failure within 96 hours after the occurrence shall include the date,
                                   time, magnitude, nature, cause, and corrective action taken. District Rule
                                   431.2(b)(3); A monthly report to the executive officer of the daily fuel
                                   consumption at each plant, and the average sulfur content of the fuel
                                   consumed.  If noncomplying fuel is burned, the report must include the
                                   efforts made to obtain complying fuel.]
------------------------------------------------------------------------------------------------------
Footnotes:
(1)    The following counties have rules that preceded the SCAQMD rules:  Los Angeles, Orange, Riverside, and
       San Bernandino.
(2)    Fuel with a higher sulfur content may be used if it can be demonstrated that the sulfur emissions would
       be no greater than when using a fuel which conplies with this standard.
------------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : CALIFORNIA
Region : 9
State Regulation Citation : District rules 104, 218, and 407

Applicable Area : South Coast Air Basin and Southeast Desert Air Basin (within the South Coast AQMD) (1)
Applicable Time Frame : Global
Facility Type : Not specified
Facility Size (MMBtu/hr) : All
Fuel Type : All fossil fuels

Emissions Limits:
(ppm SO2) : Less than or equal to 500, by volume

Compliance Procedures :: 1e, 2c, 3a, 4g, 5e

1e. Heat Input Determination => other [Not specified in the District regulations.]

2c. Test Methods => other testing [Source tests according to the methods adopted by the District, or methods determined by the Air Pollution Control Officer to be equivalent.]

3a. Monitoring Requirements => continuous SO2 monitoring [Required for fossil fuel fired steam generators with a heat input of 250 MMBtu/hr or more and a use factor of at least thirty percent and utilizing flue gas desulfurization.]

4g. Averaging Time => other [Fifteen consecutive minutes.]

5e. Reporting => other [District Rule 104; Test data and analytical results are calculated and reported at standard conditions. District Rule 218(e); A monthly summary of emission data, and a report of excess emissions or monitoring system failure within 96 hours after the occurrence shall include the time, date, magnitude, nature, cause, and corrective action taken.]

Footnotes:

(1) The following counties have rules that precede the SCAQMD rules: Los Angeles, Orange, Riverside, and San Bernadino.

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation : IV-54, IV-60, IV-64, VI-100, VI-102, and VI-103
------------------------------------------------------------------------------------------------
Applicable Area            : Ventura County Air Pollution Control District
Applicable Time Frame      : Global
Facility Type              : Combustion Operations, Fuel Burning Equipment, Nonmobile Equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid and liquid fuels
------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than or equal to 0.5, by weight. (1)
(ppm SO2)                  : Less than or equal to 300, by volume, at the point of discharge. (Less than or
                             equal to 10 ppm H2S, by volume.) (2)
(lb SO2/MMBtu)             : Less than or equal to 200 lb SOx/hr, calculated as SO2.
------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a or 2c, 3a, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods are available from
                                   the District. SO2 at the point of discharge - collection by wet impinger,
                                   conversion to sulfuric acid and titrating.  SO2 at ground level - collection
                                   by wet impinger, Schiff base formation, and colorimetric determination.]
2c.    Test Methods             => other testing  [Other methods may be used, with Director approval, if they
                                   provide equivalent results.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required for sources that emit greater
                                   than or equal to 5 lb/hr or 40 lb/day SO2.]
3e.    Monitoring Requirements  => other  [Any source tests and analysis deemed necessary to evaluate the
                                   status of compliance and or permit application.]
4g.    Averaging Time           => other  [Not specified]
5b.    Reporting                => state regulation  [Rule 103B; An emission violation report made to the
                                   District is required within 48 hours after the occurrence.  A summary report
                                   of the continuous emissions monitoring data is required upon request from
                                   the Air Pollution Control Officer.]
------------------------------------------------------------------------------------------------
Footnotes:
(1)   Fuel with a higher sulfur content may be used if the emissions are reduced to a level less than the
      emissions which would occur from the uncontrolled combustion of 0.5% sulfur fuel.
(2)   Average ground level concentrations can not exceed the following limits:  0.5 ppm SO2 (vol) for any one
      hour average, 0.04 ppm SO2 (vol) for any twenty four hour average, 0.06 ppm H2S for any three minute
      average, and 0.03 ppm H2S for any one hour average.  All sulfur present in gaseous compounds containing
      oxygen shall be calculated as SO2.
------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : CALIFORNIA
Region                     : 9
State Regulation Citation  : IV-54, IV-60, IV-64, VI-100, VI-102, and VI-103
--------------------------------------------------------------------------------------------
Applicable Area            : Ventura County Air Pollution Control District
Applicable Time Frame      : Global
Facility Type              : Combustion Operations, Fuel Burning Equipment, Nonmobile Equipment
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Gaseous fuels excluding natural gas.
--------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : Less than or equal to 300, by volume, at the point of discharge. (Less than or
                             equal to 10 ppm H2S, by volume and less than or equal to 50 gr/100 ft3, calculated
                             as H2S at standard conditions.) (1)
(lb SO2/MMBtu)             : Less than or equal to 200 lb SOx/hr, calculated as SO2.
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a or 2c, 3a, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods are available from
                                  the District. SO2 at the point of discharge - collection by wet impinger,
                                  conversion to sulfuric acid and titrating.  SO2 at ground level - collection
                                  by wet impinger, Schiff base formation, and colorimetric determination.]
2c.   Test Methods             => other testing  [Other methods may be used, with Director approval, if they
                                  provide equivalent results.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [May be required for sources that emit greater
                                  than or equal to 5 lb/hr or 40 lb/day SO2.]
3e.   Monitoring Requirements  => other  [Any source tests and analysis deemed necessary to evaluate the
                                  status of compliance and or permit application.]
4g.   Averaging Time           => other  [Not specified]
5b.   Reporting                => state regulation  [Rule 103B; An emission violation report made to the
                                  District is required within 48 hours after the occurrence.  A summary report
                                  of the continuous emissions monitoring data is required upon request from
                                  the Air Pollution Control Officer.]
--------------------------------------------------------------------------------------------
Footnotes:
(1)   Average ground level concentrations can not exceed the following limits:  0.5 ppm SO2 (vol) for any one
      hour average, 0.04 ppm SO2 (vol) for any twenty four hour average, 0.06 ppm H2S for any three minute
      average, and 0.03 ppm H2S for any one hour average.  All sulfur present in gaseous compounds containing
      oxygen shall be calculated as SO2.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                       : CALIFORNIA
Region                      : 9
State Regulation Citation : IV-54, IV-60, IV-64, VI-100, VI-102, and VI-103
-----------------------------------------------------------------------------------------------
Applicable Area             : Ventura County Air Pollution Control District
Applicable Time Frame       : Global
Facility Type               : Combustion Operations, Fuel Burning Equipment, Nonmobile Equipment
Facility Size (MMBtu/hr)    : All
Fuel Type                   : Natural gas
-----------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                   : Less than or equal to 300, by volume, at the point of discharge. (Less than or
                              equal to 10 ppm H2S, by volume, and less than or equal to 15 gr/100 ft3,
                              calculated as H2S at standard conditions.) (1)
(lb SO2/MMBtu)              : Less than or equal to 200 lb SOx/hr, calculated as SO2.
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2a or 2c, 3a, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)  [Methods are available from
                                   the District. SO2 at the point of discharge - collection by wet impinger,
                                   conversion to sulfuric acid and titrating.  SO2 at ground level - collection
                                   by wet impinger, Schiff base formation, and colorimetric determination.]
2c.    Test Methods             => other testing  [Other methods may be used, with Director approval, if they
                                   provide equivalent results.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [May be required for sources that emit greater
                                   than or equal to 5 lb/hr or 40 lb/day SO2.]
3e.    Monitoring Requirements  => other  [Any source tests and analysis deemed necessary to evaluate the
                                   status of compliance and or permit application.]
4g.    Averaging Time           => other  [Not specified]
5b.    Reporting                => state regulation  [Rule 103B; An emission violation report made to the
                                   District is required within 48 hours after the occurrence.  A summary report
                                   of the continuous emissions monitoring data is required upon request from
                                   the Air Pollution Control Officer.]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Average ground level concentrations can not exceed the following limits:  0.5 ppm SO2 (vol) for any one
       hour average, 0.04 ppm SO2 (vol) for any twenty four hour average, 0.06 ppm H2S for any three minute
       average, and 0.03 ppm H2S for any one hour average.  All sulfur present in gaseous compounds containing
       oxygen shall be calculated as SO2.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : HAWAII
Region                      : 9
State Regulation Citation : 11-60-9 and 11-60-15
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Global
Facility Type               : Fuel combustion facilities
Facility Size (MMBtu/hr)   : All
Fuel Type                   : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                       : Less than 2.0 (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2c.    Test Methods             => other testing  [All sampling and testing shall be made in accordance with
                                   EPA reference methods, or by procedures approved by the Director.]
3e.    Monitoring Requirements  => other  [As specified by the Director.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [11-60-15; A summary of excess emissions identifying the
                                   nature, amount, time, and duration of source emissions; pertinent process
                                   emissions; fuels used; and any other information deemed necessary by the
                                   Director.]
------------------------------------------------------------------------------------------
Footnotes:
(1)   A variance may be allowed with Director approval.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------
State                     : HAWAII
Region                    : 9
State Regulation Citation : 11-60-9 and 11-60-15
-------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : Fossil fuel fired power and steam generating facilities
Facility Size (MMBtu/hr)  : Greater than or equal to 250
Fuel Type                 : All fossil fuels
-------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Less than or equal to 0.5 (1)
-------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2c, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [All sampling and testing shall be made in accordance with
                                  EPA reference methods, or by procedures approved by the Director.]
3e.   Monitoring Requirements  => other  [As specified by the Director.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [11-60-15; A summary of excess emissions identifying the
                                  nature, amount, time, and duration of source emissions; pertinent process
                                  emissions; fuels used; and any other information deemed necessary by the
                                  Director.]
-------------------------------------------------------------------------------
Footnotes:
(1)   A variance may be allowed with Director approval.
-------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                       : NEVADA
Region                      : 9
State Regulation Citation : Chapter 445, Sections .682, and .742 through .748
------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : Before   11/07/75
Facility Type               : Indirect heat transfer units
Facility Size (MMBtu/hr)    : Less than 250 (63 MMkg-cal)
Fuel Type                   : All fossil fuels
------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Calculated by equation. (1)
------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4b, 5b, 5d
1e.   Heat Input Determination => other  [The aggregete heat content of all fuels whose products of combustion
                                  pass through a stack or stacks, or the equipment manufacturer's or
                                  designer's guaranteed maximum input, whichever is greater.]
2c.   Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                  All testing and sampling will be performed in accordance with recognized
                                  methods and as specified by the Director.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51 (Appendix P)]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [445.692: A quarterly report of excess emission
                                  identifying the date and time of emissions; the nature, cause and remedy of
                                  all facility and instrument malfunctions, etc.]
5d.   Reporting                => specified by the Director
------------------------------------------------------------------------------------------
Footnotes:
(1)   Y = 0.7X (Y = 1.26X), where X = the operating heat input in millions of BTUs (kg-cal) per hour, and Y =
      the allowable rate of emission of sulfur in pounds (kg) per hour.  Some sources have specific
      limitations.
------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : NEVADA
Region                     : 9
State Regulation Citation : Chapter 445, Sections .682, and .742 through .748
--------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   11/07/75
Facility Type              : Indirect heat transfer units
Facility Size (MMBtu/hr)   : Greater than or equal to 250 (63 MMkg-cal)
Fuel Type                  : Liquid fossil fuel
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Calculated by equation. (1)
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4b, 5b, 5c
1e.    Heat Input Determination => other  [The aggregate heat content of all fuels whose products of combustion
                                   pass through a stack or stacks, or the equipment manufacturer's or
                                   designer's guaranteed maximum input, whichever is greater.]
2c.    Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                   All testing and sampling will be performed in accordance with recognized
                                   methods and as specified by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51 (Appendix P)]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [445.692; A quarterly report of excess emissions
                                   identifying the date and time of emissions; the nature, cause and remedy of
                                   all facility and instrument malfunctions, etc.]
5c.    Reporting                => specified in 40 CFR Part 51  [(Appendix P)]
--------------------------------------------------------------------------------------------
Footnotes:
(1)    Y = 0.4X (Y = 0.7X), where X = the operating heat input in millions of BTUs (kg-cal) per hour, and  Y =
       the allowable rate of emission of sulfur in pounds (kg) per hour.  Some sources have specific
       limitations.
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEVADA
Region                     : 9
State Regulation Citation : Chapter 445, Sections .682, and .742 through .748
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   11/07/75
Facility Type              : Indirect heat transfer units
Facility Size (MMBtu/hr)   : Greater than or equal to 250 (63 MMkg-cal)
Fuel Type                  : Solid fossil fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Calculated by equation. (1)
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4b, 5b, 5c
1e.   Heat Input Determination => other  [The aggregate heat content of all fuels whose products of combustion
                                  pass through a stack or stacks, or the equipment manufacturer's or
                                  designer's guaranteed maximum input, whichever is greater.]
2c.   Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                  All testing and sampling will be performed in accordance with recognized
                                  methods and as specified by the Director.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51 (Appendix P)]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [445.692; A quarterly report of excess emissions
                                  identifying the date and time of emissions; the nature, cause and remedy of
                                  all facility and instrument malfunctions, etc.]
5c.   Reporting                => specified in 40 CFR Part 51  [(Appendix P)]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)   Y = 0.6X  (Y = 1.1X), where X = the operating heat input in millions of BTUs (kg-cal) per hour, and Y =
      the allowable rate of emission of sulfur in pounds (kg) per hour.  Some sources have specific
      limitations.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : NEVADA
Region                     : 9
State Regulation Citation : Chapter 445, Sections .682, and .742 through .748
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Before   11/07/75
Facility Type              : Indirect heat transfer units
Facility Size (MMBtu/hr)   : Greater than or equal to 250 (63 MMkg-cal)
Fuel Type                  : Combination of solid and liquid fossil fuel
-----------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Calculated by equation. (1)
-----------------------------------------------------------------------------------------------
Compliance Procedures           :: 1e, 2c, 3a, 4b, 5b, 5c
1e.    Heat Input Determination => other  [The aggregate heat content of all fuels whose products of combustion
                                   pass through a stack or stacks, or the equipment manufacturer's or
                                   designer's guaranteed maximum input, whichever is greater.]
2c.    Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                   All testing and sampling will be performed in accordance with recognized
                                   methods and as specified by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 51 (Appendix P)]
4b.    Averaging Time           => 1 hour
5b.    Reporting                => state regulation  [445.692; A quarterly report of excess emissions
                                   identifying the date and time of emissions; the nature, cause and remedy of
                                   all facility and instrument malfunctions, etc.]
5c.    Reporting                => specified in 40 CFR Part 51  [(Appendix P)]
-----------------------------------------------------------------------------------------------
Footnotes:
(1)    Y = L(0.7) + S(1.1) / L + S, where X = the operating heat input in millions of BTUs (kg-cal) per hour,
       and Y = the allowable rate of emission of sulfur in pounds (kg) per hour, and L = the percentage of
       total heat input derived from liquid fuel, and S = the percentage of total heat input derived from solid
       fuel.  Some sources have specific limitations.
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                       : NEVADA
Region                      : 9
State Regulation Citation : Chapter 445, sections .682 and .8185
--------------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    11/07/75
Facility Type               : Steam and electric generating boilers for recovery of resources
Facility Size (MMBtu/hr)    : All
Fuel Type                   : All fossil fuel
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : Less than or equal to 10.05
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4a, 5a, 5e
1e.    Heat Input Determination => other  [The aggregate heat content of all fuels whose products of combustion
                                   pass through a stack or stacks, or the equipment manufacturer's or
                                   designer's guaranteed maximum input, whichever is greater.]
2c.    Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                   All testing and sampling will be performed in accordance with recognized
                                   methods and as specified by the Director.]
3a.    Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 60]
4a.    Averaging Time           => specified in 40 CFR Part 60
5a.    Reporting                => specified in 40 CFR Part 60
5e.    Reporting                => other  [Compliance with ambient standards must be based on the applicable
                                   models, bases, and other requirements specified in "Guideline on air Quality
                                   Models" (OAQPS 1.2 -080), June 1, 1984.]
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
--------------------------------------------------------------------------------------------
State                      : NEVADA
Region                     : 9
State Regulation Citation  : Chapter 445, Sections .682 and .838
--------------------------------------------------------------------------------------------
Applicable Area            : Region 147, Basin 73, Lovelock Valley.  Southwest Gas Corporation
Applicable Time Frame      : After    11/07/75
Facility Type              : Liquified natural gas facilities: gas turbines and vaporizers
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquified natural gas
--------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : Less than or equal to 0.0003 lb SO2/MMBtu {1}
--------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2a, 2c, 3a, 4a, 5a
1e.   Heat Input Determination => other  [The aggregate heat content of all fuels whose products of combustion
                                  pass through a stack or stacks, or the equipment manufacturer's or
                                  designer's guaranteed maximum input, whichever is greater.]
2a.   Test Methods             => source testing (as specified in 40 CFR Part 60)
2c.   Test Methods             => other testing  [Testing and or sampling will be determined by the Director.
                                  All testing and sampling will be performed in accordance with recognized
                                  methods and as specified by the Director.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [40 CFR part 60]
4a.   Averaging Time           => specified in 40 CFR Part 60
5a.   Reporting                => specified in 40 CFR Part 60
--------------------------------------------------------------------------------------------
Footnotes:
{1}   Less than or equal to 2.1 gr/MMBtu natural gas burned (0.5 g/MMKg-cal)
--------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                     : ALASKA
Region                    : 10
State Regulation Citation : Alaska Administrative Code, Title 18, Chapter 50
-----------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : All
Facility Size (MMBtu/hr)  : All
Fuel Type                 : All
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                 : Less than 500
-----------------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2a, 2b4, 3a, 4c, 5d
1e.    Heat Input Determination => other  [Not specified]
2a.    Test Methods             => source testing (as specified in 40 CFR Part 60)
2b4.   Test Methods             => fuel testing: other  [Not specified]
3a.    Monitoring Requirements  => continuous SO2 monitoring
4c.    Averaging Time           => 3 hours
5d.    Reporting                => specified by the Director
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-------------------------------------------------------------------------------------------
State                     : IDAHO
Region                    : 10
State Regulation Citation : Idaho Department of Health and Welfare, Rules and Regulations   Sections 01.1351
                            through 01.1400.
-------------------------------------------------------------------------------------------
Applicable Area           : Statewide
Applicable Time Frame     : Global
Facility Type             : All
Facility Size (MMBtu/hr)  : All
Fuel Type                 : Liquid
-------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                     : Less than 0.3 for distillate fuel oil ASTM grade 1, less than 0.5 for distillate
                            fuel oil ASTM grade 2, less than 1.75 for residual fuel oils.
-------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b2, 3c, 4d, 5b
1e.   Heat Input Determination => other  [Not specified.]
2b2.  Test Methods             => fuel testing: ASTM  [D 1551-68, D 129-64, or D 1552-64]
3c.   Monitoring Requirements  => sulfur content of fuel
4d.   Averaging Time           => 24 hours
5b.   Reporting                => state regulation  [Monthly summaries including production rate, raw material
                                  feed rate, fuel use rate, fuel analysis for sulfur, ash and heat content,
                                  hours of operation, and emission measurements.]
-------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------------
State                      : IDAHO
Region                     : 10
State Regulation Citation : Idaho Department of Health and Welfare, Rules and Regulations Sections 01.1351
                            through 01.1400.
-----------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid
-----------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than 1.0
-----------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2b1, 3c, 4d, 5b
1e.   Heat Input Determination => other  [Not specified.]
2b1.  Test Methods             => fuel testing: ASTM  [Mechanical: D2234065, sample preparation: D 2013-65,
                                  sample analysis: D 271-68.]
3c.   Monitoring Requirements  => sulfur content of fuel
4d.   Averaging Time           => 24 hours
5b.   Reporting                => state regulation  [Monthly summaries to include production rate, fuel use
                                  rate, fuel analysis for sulfur, ash and heat content, hours of operation,
                                  and emissions measurements.]
-----------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------------
State                      : OREGON
Region                     : 10
State Regulation Citation : State of Oregon Air Quality Control Program, Chapter 340,  division 22.
------------------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : After    01/01/72
Facility Type              : All
Facility Size (MMBtu/hr)   : 150-250
Fuel Type                  : Liquid
------------------------------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)             : 1.4
------------------------------------------------------------------------------------------------------------
Compliance Procedures           :: 1a, 2c, 3e, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2c.    Test Methods             => other testing  [As approved by Department]
3e.    Monitoring Requirements  => other  [Methods on file with Oregon Department of Environmental Quality.]
4g.    Averaging Time           => other  [Two hour]
5b.    Reporting                => state regulation  [Reports prepared semi-annually on forms prepared by
                                   Oregon Department of Environmental Quality.]
------------------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
----------------------------------------------------------------------------------------------------
State                      : OREGON
Region                     : 10
State Regulation Citation  : State of Oregon Air Quality Control Program, Chapter 340, Division 22.
----------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Liquid
----------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : Less than 0.3 (distillate ASTM grade 1), less than 0.5 (distillate ASTM grade 2),
                             and less than 1.75 (residual fuel oils).
----------------------------------------------------------------------------------------------------
Compliance Procedures            :: 1e, 2c, 3e, 4g, 5b
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [As approved by the Department.]
3e.   Monitoring Requirements  => other  [Methods are on file with the Oregon Department of Environmental
                                  Quality.]
4g.   Averaging Time           => other  [Not specified.]
5b.   Reporting                => state regulation  [Semi-annual reports on forms prepared by the Oregon
                                  Department of Environmental Quality.]
----------------------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                       : OREGON
Region                      : 10
State Regulation Citation : State of Oregon Air Quality Control Program, Chapter 340, Division 22.
-----------------------------------------------------------------------------------------
Applicable Area             : Statewide
Applicable Time Frame       : After    01/01/72
Facility Type               : All
Facility Size (MMBtu/hr)    : 150-250
Fuel Type                   : Solid
-----------------------------------------------------------------------------------------
Emissions Limits:
(lb SO2/MMBtu)              : 1.6
-----------------------------------------------------------------------------------------
Compliance Procedures            :: 1a, 2b4, 3b, 3e, 4g, 5b
1a.    Heat Input Determination => unit design rated (MMBtu/hr)
2b4.   Test Methods             => fuel testing: other  [As approved by the Department.]
3b.    Monitoring Requirements  => ambient monitoring or diffusion estimate
3e.    Monitoring Requirements  => other  [Methods are on file with the Oregon Department of Environmental
                                   Quality.]
4g.    Averaging Time           => other  [Two hour]
5b.    Reporting                => state regulation  [Semi-annual reports on forms prepared by the Oregon
                                   Department of Environmental Quality.]
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------------------------
State                      : OREGON
Region                     : 10
State Regulation Citation : State of Oregon Air Quality Control Program, Chapter 340, division 22.
------------------------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : All
Facility Size (MMBtu/hr)   : All
Fuel Type                  : Solid
------------------------------------------------------------------------------------------------------------
Emissions Limits:
(% S)                      : 1.0
------------------------------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3e, 4g, 5b
1e.    Heat Input Determination => other  [Not specified.]
2c.    Test Methods             => other testing  [As approved by the Director.]
3e.    Monitoring Requirements  => other  [Methods are on file with the Oregon Department of Environmental
                                   Quality.]
4g.    Averaging Time           => other  [Not specified.]
5b.    Reporting                => state regulation  [Semi-annual reports on forms prepared by the Oregon
                                   Department of Environmental Quality.]
------------------------------------------------------------------------------------------------------------
```

SO2 Regulation Report

State : OREGON
Region : 10
State Regulation Citation : State of Oregon Air Quality Control Program, Chapter 340, division 22.

Applicable Area : Portland, Salem, Eugene-Springfield, and Medford-Ashland Air Quality Maintenance Areas, unless exempted by the Department.
Applicable Time Frame : Global
Facility Type : All
Facility Size (MMBtu/hr) : All
Fuel Type : Solid

Emissions Limits:
(% S) : Less than or equal to 0.3

Compliance Procedures :: 1e, 2b1, 3e, 4g, 5e
1e. Heat Input Determination => other [Not specified.]
2b1. Test Methods => fuel testing: ASTM [D-3175]
3e. Monitoring Requirements => other [Methods are on file with the Oregon Department of Environmental Quality.]
4g. Averaging Time => other [Not specified.]
5e. Reporting => other [Reports prepared semi-annually on forms prepared by the Oregon Department of Environmental Quality.]

```
SO2 Regulation Report
-----------------------------------------------------------------------------------------
State                      : WASHINGTON
Region                     : 10
State Regulation Citation  : Regulation 1, Chapter 9.07
-----------------------------------------------------------------------------------------
Applicable Area            : Puget Sound District (King, Kitsap, Pierce, and Snohomish Counties)
Applicable Time Frame      : Global
Facility Type              : All, including wigwam burners and hog fuel boilers.
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All, including wood waste
-----------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : Less than 1000 (1)
-----------------------------------------------------------------------------------------
Compliance Procedures          :: 1e, 2c, 3a, 4b, 5b, 5c
1e.   Heat Input Determination => other  [Not specified]
2c.   Test Methods             => other testing  [May be required to test according to the "Source Test
                                  Manual- Procedures for Compliance Testing,"  State of Washington, Department
                                  of Ecology.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Except for fossil fuel steam generators < 250
                                  MMBtu per hour,  facilities with no SO2 control equipment in place, and wood
                                  residuc-fuel fired steam generators]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [Yearly inventory of stack and fugitive emsiions, total
                                  emissions for year in tons, an estimate of 1 and 24 hour emissions from
                                  maximum capacity operation, and average sulfur content of fuel]
5c.   Reporting                => specified in 40 CFR Part 51
-----------------------------------------------------------------------------------------
Footnotes:
(1)   Emission limit is to be corrected to 7% oxygen.  Sources emitting more than 40 lb SO2/hr must also
      reduce SO2 emissions by ninety percent.
-----------------------------------------------------------------------------------------
```

```
SO2 Regulation Report
------------------------------------------------------------------------------------------
State                      : WASHINGTON
Region                     : 10
State Regulation Citation  : Washington Administrative Code 173-400
------------------------------------------------------------------------------------------
Applicable Area            : Statewide
Applicable Time Frame      : Global
Facility Type              : All, including wigwam burners and hog fuel boilers.
Facility Size (MMBtu/hr)   : All
Fuel Type                  : All, including wood waste
------------------------------------------------------------------------------------------
Emissions Limits:
(ppm SO2)                  : Less than 1000 (1)
------------------------------------------------------------------------------------------
Compliance Procedures         :: 1e, 2c, 3a, 4b, 5b, 5c
1e.   Heat Input Determination => other  [Not specified.]
2c.   Test Methods             => other testing  [May be required to test according to the "Source Test Manual
                                  - Procedures for Compliance Testing," State of Washington, Department of
                                  Ecology.]
3a.   Monitoring Requirements  => continuous SO2 monitoring  [Except for fossil fuel steam generators less
                                  than 250 MMBtu per hour, facilities with no SO2 control equipment in place,
                                  and wood residue-fuel fired steam generators.]
4b.   Averaging Time           => 1 hour
5b.   Reporting                => state regulation  [Yearly inventory of stack and fugitive emissions, total
                                  emissions for year in tons, an estimate of 1 and 24 hour emissions from
                                  maximum capacity operation, and average sulfur content of fuel.]
5c.   Reporting                => specified in 40 CFR Part 51
------------------------------------------------------------------------------------------
Footnotes:
(1)   Corrected to 7% oxygen for combustion sources.
------------------------------------------------------------------------------------------
```

APPENDIX A

FEDERAL NSPS AFFECTING SO_2 EMISSIONS FROM FUEL COMBUSTION

Summary of NSPS SO_2 Regulations

40 CFR 60.40 Subpart D -- Standards of Performance for Fossil-Fuel-Fired Steam Generators

Affected Facility	Applicable Time Frame	Emission Limits	Initial Performance Testing	Monitoring	Definition of Periods of Excess Emissions
Fossil-fuel-fired steam generating unit >73 MW heat input rate (250 MMBtu/hour) or Fossil-fuel and wood-residue-fired steam generating unit capable of firing at >73 MW (250 MMBtu/hour)	After 8/17/71	340 ng/J heat input (0.80 lb/MMBtu) derived from liquid fossil fuel and wood residue. 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel and wood residue (except units at the Newton Power Station owned or operated by the Illinois Public Service Co.) When different fossil fuels burned simultaneously, limit determined by proration using the formula: $PS(SO_2) = [y(340) + z(520)]/(y + z)$ (See Section 60.43.)	Performance test in accordance with Section 60.8. Performance Specification 2 (Appendix B) used in evaluating acceptability of CEMS at time of installation (i.e., for preparing calibration mixtures). Span (liquid fossil fuel) = 1,000 ppm. Span (solid fossil fuel) = 1,500 ppm. Span (combination of fuels) = (1,000y + 1,500z) ppm. where: y = the fraction of total heat input derived from gaseous fossil fuel; and z = the fraction of total heat input derived from solid fossil fuel. All span values rounded to nearest 500 ppm.	Continuous monitoring system (to measure SO_2 and either CO or O_2) required except for: (1) a steam generating unit that burns only gaseous fossil fuel and (2) a unit without an FGD system if the owner/operator monitors SO_2 by fuel sampling and analysis. If no continuous monitoring system used for SO_2, then none required for O_2 or CO_2. Methods 3, 3A, 6, 6A, 6B, or 6C. Method 1 for selection of sampling site and sampling traverses. For Method 6, Method 3 for gas analysis. Method 6 or 6C for concentration of SO_2. Method 6A may be used whenever Methods 6 or 6C and 3 or 3A data are used to determine the SO_2 emission rate in ng. Method 6C shall be used only at the sole discretion of the source owner or operator. Min. sampling time for Method 6, 20 min.; and min. sample vol. = 0.02 dscm (0.71 dscf) for each sample. Arithmetic average of 2 samples = 1 run. Samples taken ~30 min. For Methods 6 and 6C, the O_2 sample shall be obtained simultaneously at the same point in the duct.	Any 3-hour period during which the average emissions (arithmetic average of 3 contiguous 1-hour periods) of SO_2 as measured by a continuous monitoring system exceed the standards.

Summary of NSPS SO_2 Regulations

40 CFR 60.40a Subpart Da -- Standards of Performance for Electric Utility Steam Generators

Affected Facility	Applicable Time Frame	Emission Limits	Initial Performance Testing	Monitoring	Definition of Periods of Excess Emissions
Electric utility steam generating unit (combined cycle gas turbine) capable of combusting > 73 MW heat input (250 MMBtu/hour) of fossil fuel (either alone or in combination with any other fuel)	After 9/18/78	When combusting solid or solid-derived fuel: (1) 520 ng/J heat input (1.20 lb/MMBtu) heat input and 10% of the potential combustion conc. (90%) or (2) 30% of the potential combustion conc. (70% reduction), when emissions are ≤260 ng/J (0.60 lb/MMBtu heat input. When combusting liquid or gaseous fuels (except those derived from solid fuels): (1) 340 ng/J heat input (0.80 lb/MMBtu) heat input and 10% of the potential combustion conc. (90%) or (2) 100% of the potential combustion conc. (0% reduction) when emissions are ≤86 ng/J (0.20 lb/MMBtu) heat input. When combusting solid solvent refined coal (SCR-I): 520 ng/J heat input (1.20 lb/MMBtu) heat input and 15% of the potential combustion conc. (85%).	Performance testing in accordance with Section 60.8. Performance Specification 2 used in evaluating acceptability of CEMS at time of installation (i.e., used in preparing calibration gas mixtures). Span = 125% of max. estimated hourly potential emissions of the fuel fired (at the inlet) and 50% (at the outlet). See Section 60.8, performance test based on average emission rates for the first 30 days within 60 days after achieving the max. production rate. (Not later than 180 days after date of initial startup.) Calculated as arithmetic average of all hourly emission rates for the 30 successive boiler operating days except for data obtained during emergency conditions. Compliance with % reduction is based on average inlet and outlet emission rates. standards, use 30-day rolling average basis. Compliance with % reduction determined on a 24-hour basis.	Continuous monitoring system for SO_2 (both inlet and outlet of control device). Alternatively, an as-fired fuel monitoring system (upstream of coal pulverizers) meeting the requirements of Method 19 (Appendix A) may be used. Continuous monitoring system for O_2 or CO_2. 1 hour averages must contain at least 2 data points. Methods 3 or 3A, 6 or 6C. Method 6A or 6B may be used whenever Methods 6 and 3 data are required to determine the SO_2 emission rate in ng/J. Methods 6A and 6C are used solely at the discretion of the owner/operator. Min. sampling time for Method 6, 20 min.; and min. sample vol. = 0.02 dscm (0.71 dscf) for each sample. Samples collected ~every 60 min. Each sample = 1 hour average. Method 6B operated for 24 hours per sample. Min. sample vol. = 0.02 dsm^3 (0.71 dscf) for each sample. Each Method 6B sample = 24 1-hour averages.	Any 30-day period during which the average (rolling) emissions of SO_2 as measured by a continuous monitoring system exceed the standards.

Summary of NSPS SO_2 Regulations
40 CFR 60.40b Subpart Db -- Standards of Performance for Industrial-Commercial-Institutional Steam Generators

Affected Facility	Applicable Time Frame	Emission Limits	Initial Performance Testing	Monitoring	Definition of Periods of Excess Emissions
Steam generating unit with input capacity from fuels combusted of >29 MW heat input (100 MMBtu/hour)	After 6/19/84	When combusting coal or oil: 10% of the potential combustion conc. (90% reduction) or an emission limit determined by the following formula: $E(S) = [K(c)H(c) + K(d)H(d)/H(c) + H(d)]$ where: $E(s)$ is the SO_2 emission limit (ng/J) $K(c)$ = 260 ng/J (0.60 lb/MMBtu) $K(d)$ = 170 ng/J (0.40 lb/MMBtu) $H(c)$ = heat input from combusting coal, J (MMBtu) $H(d)$ = heat input from combusting oil, J (MMBtu)	Performance test in accordance with Section 60.8. Conducted over first 30 consecutive operating days. 30 day average. First day of test scheduled within 30 days of achieving max. production rate (but no later than 180 days after startup) Performance Specification 2 (Appendix B) used in evaluating acceptability of CEMS at time of installation (i.e., preparing calibration gas mixtures). Quarterly accuracy determinations and daily calibration drift tests according to Procedure 1, Appendix F. Span = 125% of max. estimated hourly potential emissions of fuel combusted (at the inlet); 50% (at the outlet).	Continuous monitoring system for SO_2, and O_2 or CO_2 (at inlet and outlet) 30-day rolling average basis except if (1) annual capacity factor for oil limited to 10% or less; (2) only oil which emits <130 ng/J is combusted; and (3) no other fuel is combusted. Alternative methods: (1) Collect coal or oil samples at inlet and analyse for S and heat content (Method 19); (2) Method 6B; (3) Daily emission rate determined by Method 6A; (4) Mean 30-day emission rate (Equation 19-20 of Method 19).	Any 30-day period during which the average emissions (rolling) of SO_2 as measured by a continuous monitoring system exceed the standards.
Steam generating unit with input capacity from fuels combusted of >29 MW heat input (100 MMBtu/hour)		When combusting coal refuse alone in an FBC: 20% of the potential combustion conc. (80% reduction) with SO_2 emissions ≤520 ng/J (1.2 lb/MMBtu) heat input. When combusting coal or oil (alone or in combination) and using an emerging technology: 50% of the potential combustion conc. (50% reduction) and emission limit calculated using the above formula.			
Steam generating unit with input capacity from fuels combusted of >29 MW heat input (100 MMBtu/hour) (1) with annual capacity factor ≤30%; (2) located in a noncontinental area; (3) combusting coal or oil alone or in combination with another fuel, in a duct burner as part of a combined cycle system where 30% or less of heat input is is from coal or oil in the duct burner and ≥70% is from exhaust gases entering the duct burner; (4) combusting very low sulfur oil.		When combusting: 520 ng/J (1.2 lb/MMBtu) heat input When combusting oil: 130 ng/J (0.30 lb/MMBtu) heat input No % reduction here.			

Summary of NSPS SO_2 Regulations
40 CFR 60.330 Subpart GG -- Standards of Performance for Stationary Gas Turbines

Affected Facility	Applicable Time Frame	Emission Limits	Initial Performance Testing	Monitoring	Definition of Periods of Excess Emissions
Stationary gas turbine with a heat input at peak load > 10.7 GJ/hour, based on the lower heating value of the fuel fired	After 10/3/77	One of the following conditions must be met: (1) ≤ 0.015% by vol. of SO_2 from gases discharged to the atmosphere at 15% O_2 (dry basis); (2) ≤ 0.8% by weight S content of fuel burned	Performance test as stated in Section 60.8.	Reference Method 20 for the concentration of SO_2. SO_2 content of fuel fired must be monitored. If fuel is from a bulk storage tank, values shall be determined each time fuel is transferred to the storage tank. If fuel does not undergo bulk storage, values shall be determined and recorded daily. For S content, use ASTM D-2880-71 for liquid fuels; use ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 for gaseous fuels.	Any daily period during which the S content of the fuel fired exceeds 0.8%.